'Social Transformation Through Dynamic Education'

BHARATI VIDYAPEETH'S

MATOSHRI BAYABAI SHRIPATRAO KADAM KANYA MAHAVIDYALAYA

KADEGAON, Dist. Sangli – 415305

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Programme Outcomes (POs) and Course Outcome (COs) 2021-22

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B.A. Part I

B.A. Part I – Ability Enhancement Compulsory Course (AECC 1)
(Compulsory English) (CBCS)
English for Communication

Course Objectives:

1. To acquaint students with communication skills.
2. To inculcate human values among the students through poems and prose.
3. To improve the language competence of the students

Course Outcomes:

1. To acquaint students with communication skills.
2. To inculcate human values among the students through poems and prose.
3. To improve the language competence of the students

B.A. Part I (Discipline Specific Core) (DSC- A3)

Modern Indian Writing in English Translation

Course Objectives:

1. To acquaint the students with translated Modern Indian literature in English.
2. To introduce the students to short story as a form of literature with reference to the texts prescribed.
3. To develop literary competence among students.

Course Outcomes:

1. To acquaint the students with translated Modern Indian literature in English.
2. To introduce the students to short story as a form of literature with reference to the texts prescribed.
3. To develop literary competence among students.

B.Com. Part I

Ability Enhancement Compulsory Course (Compulsory English) (CBCS)
English for Business Communication

Course Objectives:

1. To acquaint students with communication skills.
2. To inculcate human values among the students through poems and prose.
3. To improve the language and business competence of the students.

Course Outcomes:

1. To acquaint students with communication skills.
2. To inculcate human values among the students through poems and prose.
3. To improve the language and business competence of the students.

B.COM. PART II

ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
ENGLISH FOR BUSINESS COMMUNICATION

Course Objectives:

1. To enable the students to develop communication skills in English, both oral and written.
2. To equip the students with the language skills for use in their personal, academic and professional lives.
3. To develop the students essential employability skills.
4. To help the students to enter the job market with confidence and the ability to work effectively.
5. To help the students to learn and practice both language and soft skills.
6. To encourage the active involvement of students in learning process.
7. To enable the students to cultivate a broad, human and cultured outlook.

Course Outcomes:

1. To enable the students to develop communication skills in English, both oral and written.
2. To equip the students with the language skills for use in their personal, academic and professional lives.
3. To develop the students essential employability skills.
4. To help the students to enter the job market with confidence and the ability to work effectively.
5. To help the students to learn and practice both language and soft skills.
6. To encourage the active involvement of students in learning process.
7. To enable the students to cultivate a broad, human and cultured outlook.

B. A. Part II

ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)
ENGLISH FOR COMMUNICATION

Course Objectives:

1. To enable the students to develop communication skills in English, both oral and written.
2. To equip the students with the language skills for use in their personal, academic and professional lives.
3. To develop the students essential employability skills.
4. To help the students to enter the job market with confidence and the ability to work effectively.
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Course Outcomes:

1. To enable the students to develop communication skills in English, both oral and written.
2. To equip the students with the language skills for use in their personal, academic and professional lives.
3. To develop the students essential employability skills.
4. To help the students to enter the job market with confidence and the ability to work effectively.
5. To help the students to learn and practice both language and soft skills.
6. To encourage the active involvement of the students in learning process.
7. To enable the students to cultivate a broad, human and cultured outlook.

B A II (Discipline Specific Core) (DSC-C5)

English (Paper III) (Semester III)

LITERATURE AND CINEMA (CBCS)

Course Objectives:

1. To introduce film and its relationship to literature to the students
2. To acquire film literacy through a working knowledge of basic film terminology
3. To develop critical approaches to engage with film adaptations
4. To establish a clear understanding of literature through film adaptations of literary texts
5. To introduce the students to the issues and practices of cinematic adaptations

Course Outcomes:

1. To introduce film and its relationship to literature to the students
2. To acquire film literacy through a working knowledge of basic film terminology
3. To develop critical approaches to engage with film adaptations
4. To establish a clear understanding of literature through film adaptations of literary texts
5. To introduce the students to the issues and practices of cinematic adaptations

(Discipline Specific Core) (DSC-C6)

English (Paper IV) (Semester III)

PARTITION LITERATURE (CBCS)

Course Objectives:

1. To create an awareness of the partition scenario among the students
2. To explain the hidden human dimensions of the partition to the students
3. To elaborate on the impact of partition on society

Course Outcomes:

1. To create an awareness of the partition scenario among the students
2. To explain the hidden human dimensions of the partition to the students
3. To elaborate on the impact of partition on society

B. Sc. III

B Sc. III - Ability Enhancement Compulsory Course (CBCS)

ENGLISH FOR COMMUNICATION

Course Objectives:

1. To enhance students' communication skills
2. To impart employability skills to students
3. To prepare students for competitive examinations
4. To enable students to acquire professional skills such as media writing
5. To enable students to learn manners and etiquettes required at workplace
6. To enhance students' reading comprehension skills
7. To create interest in English literature among students
8. To inculcate human values and ethics in order to enable them to become good citizens of the country

Course Outcomes:

After the completion of the course, the students will be able to:

1. Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces.
2. Face job interviews confidently and efficiently.
3. Acquire soft skills required at workplaces and in real life.
4. Learn group behavior and team work.
5. Learn to value and respect others' opinions and views and develop democratic attitude.

6. Face competitive examinations confidently and efficiently with adequate linguistic confidence.
7. Acquire professional skills required in media writing such as writing editorials.
8. Learn to appreciate and enjoy reading poetry and prose passages.
9. Acquire human values and develop cultured outlook.

B. A.III

B A III - Ability Enhancement Compulsory Course (CBCS)

ENGLISH FOR COMMUNICATION

Course Objectives:

1. To enhance students' communication skills
2. To impart employability skills to students
3. To prepare students for competitive examinations
4. To enable students to acquire professional skills such as media writing
5. To enable students to learn manners and etiquettes required at workplace
6. To enhance students' reading comprehension skills
7. To create interest in English literature among students
8. To inculcate human values and ethics in order to enable students' to become good citizens of the country

Course Outcomes:

After the completion of the course, the students will be able to:

1. Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplaces.
2. Face job interviews confidently and efficiently.
3. Acquire soft skills required at workplaces and in real life.
4. Learn group behavior and team work.
5. Learn to value and respect others' opinions and views and develop democratic attitude.
6. Face competitive examinations confidently and efficiently with adequate linguistic confidence.
7. Acquire professional skills required in media writing such as writing editorials.
8. Learn to appreciate and enjoy reading poetry and prose passages

B. A. Part III - Special English

INTRODUCTION TO LITERARY CRITICISM (CBCS)

Semester V (Paper VII) (DSE- E11) & Semester VI (Paper XII) (DSE- E136)

Course Objectives:

1. To introduce students to the major trends in literary criticism.
2. To familiarize students with the major critical concepts.
3. To help students to study the original contributions made in the field of literary criticism.
4. To acquaint students with the various literary and critical movements.
5. To train students to write critical appreciation of poetry.

Course Outcomes:

1. Students are able to understand the major trends in criticism.
2. Students are able to interpret critical concepts.
3. Students are able to study the original contributions to literary criticism.
4. Students are acquainted with literary and critical movements.
5. Students are able to understand the meaning and appreciate the poems critically.

English Special - ENGLISH POETRY (CBCS)

Semester V (Paper VIII) (DSE – E12) and Semester VI (Paper XIII) (DSE – E137)

Course Objectives:

1. To make students engaged and curious readers of poetry
2. To introduce students to poetry from various cultures and traditions
3. To make students understand that poetry gives intellectual, moral and linguistic pleasures
4. To make students hear and read poems aloud and to memorize lines

Course Outcomes:

1. Students will be able to trace the development of the poetry in English from the days of Shakespeare to the contemporary India.
2. Students will be able to appreciate and analyze the poems properly.
3. Students will have a fairly comprehensive view of the Western and Eastern poetic tradition and they will be able to relate it to various literary movements.
4. Students will have an insight into poetry and they will be able to make a lively and interesting reading.

Special English - ENGLISH DRAMA (CBCS)

Semester V (Paper IX) ((DSE – E13) & Semester VI (Paper XIV) (DSE – E138)

Course Objectives:

1. To make students understand different forms of drama
2. To enable students to relate drama to their ideological or socio-political contexts
3. To help students improve their creative and imaginative faculties through the reading of drama
4. To enable students to know about various aspects of the drama

Course Outcomes:

1. Students are able to understand different forms of drama.
2. Students are able to relate drama to their ideological or socio-political contexts.
3. Students are able to improve their creative and imaginative faculties through the reading of drama.
4. Students are able to know about various aspects of the drama.

Special English - ENGLISH NOVEL (CBCS)

Semester V (Paper X) ((DSE – E14) & Semester VI (Paper XV) (DSE – E139)

Course Objectives:

1. To make students understand different forms of novel.
2. To enable students to relate novels to their ideological or socio-political contexts.
3. To help students to improve their creative and imaginative faculties through the reading of novels.
4. To enable students to know about various aspects of the novel.

Course Outcomes:

1. Students are able to understand different forms of novel.
2. Students are able to relate novels to their ideological or socio-political contexts.
3. Students are able to improve their creative and imaginative faculties through the reading of novels.
4. Students are able to know about various aspects of the novel.

English Special - LANGUAGE AND LINGUISTICS (CBCS)

Semester V –Paper XI (DSE - E15) & Semester VI – Paper XVI (DSE - E140)

Course Objectives:

1. To orient students to the concept of communication.
2. To make the students familiar with varieties of the English language.
3. To acquaint students with different levels of the study of language.
4. To study the basic units of grammar.
5. To acquaint students with structures and functions of words and phrases.
6. To enable students to know and identify elements and types of clauses.
7. To study Subordination and Coordination.
8. To study different ways of structuring clauses.

Course Outcomes:

1. Students know the concept of communication.
2. Students are familiar with varieties of the English language.
3. Students know different levels of study of the English language.
4. Students know basic units of grammar.
5. Students know words and phrases.
6. Students know and identify elements and types of clauses.
7. Students know types of sentences.
8. Students know the different ways of structuring clauses

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Choice Based Credit System

बी. ए. भाग-१

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अभ्यासपत्रिका - मराठी आवश्यक CGE

पाठ्यपुस्तक : शब्दसंहिता

Course Objectives (उद्दिष्टे)-

१. विद्यार्थ्यांची मराठी भाषा आणि साहित्याविषयी अभिरुची विकसित करणे.
२. मराठी साहित्य परंपरा, लेखक, कवी, यांचा परिचय करून देणे.
३. विद्यार्थ्यांमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४. विद्यार्थ्यांचा व्यक्तिमत्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्व तयारी करून घेणे.
५. निबंध लेखनाच्या माध्यमातून भाषा उपयोजनांची कौशल्ये विकसित करणे.

Programme Outcomes: P-A

१. विद्यार्थांची मराठी भाषा आणि साहित्याविषयीची अभिरुची विकसित केली.
२. मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून दिला.
३. विद्यार्थांमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण केली.
४. विद्यार्थ्यांचा व्यक्तिमत्त्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेतली.
५. निबंधलेखनाच्या माध्यमातून भाषा उपयोजनाची कौशल्ये विकसित केले.

Programme Outcomes: P-B

१. विद्यार्थांची मराठी भाषा आणि साहित्याविषयीची अभिरुची विकसित करणे.
२. मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून देणे.
३. विद्यार्थांमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४. विद्यार्थ्यांचा व्यक्तिमत्त्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेणे.
५. निबंधलेखनाच्या माध्यमातून भाषा उपयोजनाची कौशल्ये विकसित करणे.

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Choice Based Credit System

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अभ्यासपत्रिका - मराठी ऐच्छिक DSC

पाठ्यपुस्तक : अक्षरबंध

Course Objectives (उद्दिष्टे)-

१. विद्यार्थ्यांची मराठी भाषा आणि साहित्याविषयी अभिरुची विकसित करणे.
२. मराठी साहित्य परंपरा, लेखक, कवी, यांचा परिचय करून देणे.
३. विद्यार्थ्यांमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४. विद्यार्थ्यांचा व्यक्तिमत्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्व तयारी करून घेणे.
५. चित्रपट आणि प्रसारमाध्यमे यांच्या लेखण आणि उपयोजनाच्या, आकलनाचा अवकाश वाढीवणे.

Programme Outcomes: P-A1

१. विद्यार्थाची मराठी भाषा आणि साहित्याविषयीची अभिरुची विकसित केली.
२. मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून दिला.
३. विद्यार्थीमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण केली.
४. विद्यार्थ्यांचा व्यक्तिमत्त्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेतली.
५. वृत्तपत्रीय लेखन व स्पर्धा परीक्षेसाठी लेखनाचा अवकाश वाढविला.

Programme Outcomes: P-A13

१. विद्यार्थांची मराठी भाषा आणि साहित्याविषयीची अभिरुची विकसित केली.
२. मराठी साहित्य परंपरा, लेखक, कवी यांचा परिचय करून दिला.
३. विद्यार्थीमध्ये मातृभाषा, राष्ट्रीय एकात्मता आणि उच्च मानवी मूल्यांविषयी जाणीव निर्माण केली.
४. विद्यार्थ्यांचा व्यक्तिमत्त्व विकास घडवून विविध परीक्षा आणि स्पर्धा परीक्षांची पूर्वतयारी करून घेतली.
५. चित्रपट आणि प्रसारमाध्यमे यांच्या लेखन आणि उपयोजनाच्या आकलनाचा अवकाश वाढविला.

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Choice Based Credit System

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अभ्यासपत्रिका क्र. III - मराठी ऐच्छिक DSE C1

पाठ्यपुस्तक: काय डेंजर वारा सुटलाय

Course Objectives (उद्दिष्टे)-

१. नाटक ह्या वाङ् मय प्रकाराचे आकलन करून घेणे.
२. समकालीन नाटकातून नाटककाराच्या समकालाचे प्रतिबिंब कशाप्रकारे प्रकट होते.
३. अभ्यासाद्वारे प्रयोगरूप नाटक व नाट्यक्षेत्रातील ज्ञान संपादनास चालना देणे.
४. नाटकाच्या अभ्यासातून सभ्यता, संस्कृती, राष्टीय एकात्मता व बंधुता वाढीस लावणे.
५. विद्यार्थ्यांमध्ये संवाद लेखन कौशल्य विकसित करणे.

Programme Outcomes:

१. नाटक या वाडमय प्रकाराचे आकलन करून घेतले.
२. समकालीन नाटकातून नाटककाराच्या समाकालाचे प्रतिबिंब कशाप्रकारे प्रकट होते याचा अभ्यास केला.
३. नाटयाभ्यासाद्वारे प्रयोगरूप नाटक व नाटयक्षेत्रातील द्यानसंम्पादनास चालना दिली.
४. नाटयाभ्यासातून सभ्यता, संस्कृती, राष्ट्रीय एकात्मता व बंधुता वाढीस लावली.
५. विद्यार्थ्यांमध्ये संवादलेखन कौशल्ये विकसित केली.

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बी. ए. भाग-२

सत्र क्र. – ३

अभ्यासपत्रिका क्र. IV - मराठी ऐच्छिक DSE C2

पाठ्यपुस्तक : काव्यगंध

Course Objectives (उद्दिष्टे)-

१. मराठी काव्य परंपरा व प्रवाहांची ओळख करून घेणे.
२. मराठी काव्यातून प्रकट होणारे माणूस आणि समाज यातील परस्पर संबंध शोधणे.
३. कवितेच्या कलात्मक आकृतीबंधाचे मोल अभ्यासणे.
४. काव्याप्रवाहानुरूप काव्यालेखनाचे विशेष अभ्यासणे.
५. प्रात्यक्षिकाद्वारे काव्यलेखन कौशल्य रुजविणे.

Programme Outcomes:

१. मराठी काव्य परंपरा व प्रवाहांची ओळख करून घेतली.
२. मराठी काव्यातून प्रकट होणारे माणूस आणि समाज यातील परस्पर संबंध शोधली.
३. कवितेच्या कलात्मक आकृतीबंधाचे मोल अभ्यासली.
४. काव्याप्रवाहानुसार काव्यालेखनाचे विशेष अभ्यासले.
५. प्रात्यक्षीकाद्वारे काव्यलेखन कौशल्य रुजविले.

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Choice Based Credit System

बी. ए. भाग-२

सत्र क्र. ४

अभ्यासपत्रिका क्र. V - मराठी ऐच्छिक DSE C25

साहित्यकृती: माती, पंख आणि आकाश (आत्मचरित्र)

Course Objectives (उद्दिष्टे)-

१. आत्मचरित्र या वाङ् मय प्रकाराची ओळख करून घेणे.
२. इतर वाङ् मय प्रकार आणि आत्मचरित्र यातील अभिव्यक्ती रूपांचा अभ्यास करणे.
३. आत्मचरित्रकाराच्या व्यक्तिमत्वाची जडणघडण आणि त्याचा समकाल समजून घेणे.
४. वेगवेगळ्या भारतीय प्रांतातील व परदेशातील जीवनदर्शन समजून घेणे.
५. आत्मवृत्तपर लेखन कौशल्ये विकसित करणे.

Programme Outcomes:

१. आत्मचरित्र या वाङ् मय प्रकाराची ओळख करून घेतली.
२. इतर वाङ् मय आणि आत्मचरित्र यातील अभिव्यक्ती रूपांचा अभ्यास केला.
३. आत्माचरित्रकाराच्या व्यक्तिमत्त्वाची जडण-घडण आणि त्याचा समकाल समजून घेतला.
४. वेगवेगळ्या भारतीय प्रांतातील व परदेशातील जीवनदर्शन समजून घेतले.
५. आत्मवृत्तपर लेखन कौशल्य विकसित केले.

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Choice Based Credit System

बी. ए. भाग-२

सत्र क्र. ४

अभ्यासपत्रिका क्र. VI - मराठी ऐच्छिक DSE C26

साहित्यकृती: जुगाड

Course Objectives (उद्दिष्टे)-

१. कादंबरी वाङ् मय प्रकाराची ओळख करून घेणे.
२. समकालीन कादंबरीतील नव्या अवकाशाचा शोध घेणे व अधुनिकतेमधील अंतर्विरोध समजून घेणे.
३. मानवी मूल्यांविषयी जाणीव निर्माण करणे.
४. कादंबरी लेखनाचे विशेष अभ्यासणे.
५. ग्रंथास्वादाची कौशल्ये रुजविणे.

Programme Outcomes:

१. कादंबरी वाङ् मय ओळख करून घेतली.
२. समकालीन कादंबरीतील नव्या अवकाशाचा शोध घेतला व आधुनिकतेमधील अंतर्विरोध समजून घेतला .
३. मानवी मूल्यांविषयी जाणीव निर्माण केली.
४. कादंबरी लेखानाचे विशेष अभ्यासले.
५. वृतांतलेखन कौशल्य रुजविले.

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Choice Based Credit System

बी. ए. भाग-३

विद्याशाखीय विशेष निवड (Discipline Specific Elective) E1

सत्र क्र. ५

अभ्यासपत्रिका क्र. VII – साहित्यविचार

Course Objectives (उद्दिष्टे)-

१. पौर्वात्य, पाश्चात्य व आधुनिक भारतीय साहित्यशास्त्राचे स्वरूप समजून घेणे.
२. ललित व ललितेत्तर साहित्याचे स्वरूप समजून घेणे.
३. साहित्य प्रयोजनांचे आकलन करून घेणे.
४. साहित्याची निर्मितीप्रक्रिया आणि त्याचे स्वरूप आकलन करून घेणे.
५. भाषेतील अलंकार समजून घेणे.

Programme Outcomes:

१. पौर्वात्य, पाश्च्यात व आधुनिक भारतीय साहित्याशासाचे स्वरूप समजून घेतले.
२. ललित व ललितेतर साहित्याचे स्वरूप समजून घेतले.
३. साहित्य प्रयोजनांचे आकलन करून घेतले.
४. साहित्याची निर्मितीप्रक्रिया आणि त्याचे स्वरूप आकलन करून घेतले.
५. भाषेतील अलंकार समजून घेतले.

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Choice Based Credit System

बी. ए. भाग-३

विद्याशाखीय विशेष निवड (Discipline Specific Elective)E2

सत्र क्र. ५

अभ्यासपत्रिका क्र. VIII मराठी भाषा व भाषाविज्ञान

Course Objectives (उद्दिष्टे)-

१. भाषोत्पत्तीचा अभ्यास करणे.
२. भाषा विज्ञानाचा परिचय करून घेणे.
३. भाषा विज्ञान आणि मराठी भाषा यांचा सहसंबंध जाणून घेणे.
४. स्वनविचार, रुपविचार व वाक्याविचारांचा परिचय करून घेणे.
५. मराठी भाषेविषयी विद्यार्थ्यांची आवड विकसित करणे.

Programme Outcomes:

१. भाषोत्तीचा अभ्यास केला.
२. भाषाविज्ञानाचा परिचय करून घेतला.
३. भाषाविज्ञान आणि मराठी भाषा यांचा सहसंबंध जाणून घेतला.
४. स्वनविचार, रूपविचार व वाक्याविचारांचा परिचय करून घेतला.
५. मराठी भाषेविषयी विद्यार्थ्यांची आवड विकसित केला.

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Choice Based Credit System

बी. ए. भाग-३

विद्याशाखीय विशेष निवड (Discipline Specific Elective)E3

सत्र क्र. ५

अभ्यासपत्रिका क्र. IX – मध्ययुगीन मराठी वाङ् मयाचा इतिहास (प्रारंभ ते इ.सं १५००)

Course Objectives (उद्दिष्टे)-

१. मध्ययुगीन मराठी वाङ् मयाचा कालिक अभ्यास करणे.
२. मध्ययुगीन मराठी वाङ् मयाचा स्थूल परिचय करून घेणे.
३. मध्ययुगीन मराठी वाङ् मयाचे स्वरूप, वैशिष्ट्ये अभ्यासणे.
४. मध्ययुगीन मराठी वाङ् मयातील महत्वाचे ग्रंथकार आणि ग्रंथ यांचा स्थूल परिचय करून घेणे.
५. मध्ययुगीन मराठी वाङ् मयाच्या गद्य, पद्य रचनेचे विशेष अभ्यासणे.

Programme Outcomes:

१. मध्ययुगीन मराठी वाङ्मयाचा कालिक अभ्यास केला.
२. मध्ययुगीन मराठी वाङ्मयाचा स्थूल परिचय करून घेतला.
३. मध्ययुगीन मराठी वाङ्मयाचे स्वरूप, वैशिष्टे अभ्यासला.
४. मध्ययुगीन मराठी वाङ्मयातील महत्वाचे ग्रंथकार आणि ग्रंथ यांचा स्थूल परिचय करून घेतला.
५. मध्ययुगीन मराठी वाङ्मयाच्या गद्य, पद्य रचनेचे विशेष अभ्यासला.

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Choice Based Credit System

बी. ए. भाग-३

विद्याशाखीय विशेष निवड (Discipline Specific Elective)E4

सत्र क्र. ५

अभ्यासपत्रिका क्र. X – मराठी भाषा व अर्थार्जनाच्या संधी.

Course Objectives (उद्दिष्टे)-

१. सर्जनशील लेखनप्रक्रिया समजून घेणे.
२. वैचारिक लेखनाचे स्वरूप अभ्यासणे.
३. शोध निबंध व प्रकल्प लेखन कौशल्य समजून घेणे.
४. आंतरजालावरील मराठी लेखनपद्धती अभ्यासणे.

Programme Outcomes:

१. सर्जनशील लेखनप्रक्रिया समजून घेतली.
२. वैचारिक लेखनाचे स्वरूप अभ्यासले.
३. शोधनिबंध व प्रकल्पलेखन कौशल्य समजून घेतली.
४. आंतरजालावरील मराठी लेखनपद्धती अभ्यासली.

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Choice Based Credit System

बी. ए. भाग-३

विद्याशाखीय विशेष निवड (Discipline Specific Elective) E5

सत्र क्र. ५

अभ्यासपत्रिका क्र. XI – वाङ् मय प्रवाहाचे अध्ययन (पाठ्यपुस्तक- दृष्टांतपाठ)

Course Objectives (उद्दिष्टे)-

१. मध्ययुगीन महाराष्ट्र व महानुभाव पंथ यांचा परिचय करून घेणे.
२. महानुभाव वाङ् मयाच्या प्रेरणा व स्वरूप समजून घेणे.
३. महानुभावीय ग्रंथकार केसोबास यांचा परिचय करून घेणे.
४. दृष्टांतपाठातील आशयस्वरूप व अभिव्यक्ती विशेष अभ्यासणे.
५. दृष्टांतपाठातील भाषिक वैभवाचा परिचय करून घेणे.

Programme Outcomes:

१. मध्ययुगीन महाराष्ट्र व महानुभाव पंथ यांचा परिचय करून घेतला.
२. महानुभाव वाङ्मयाच्या प्रेरणा व स्वरूप समजून घेतला.
३. महानुभावीय ग्रंथकार केसोबास यांचा परिचय करून घेतला.
४. दृष्टांतपाठातील आशयस्वरूप व अभिव्यक्ती विशेष अभ्यासणे.
५. दृष्टांतपाठातील भाषिक वैभवाचा परिचय करून घेतला.

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Choice Based Credit System

बी. ए. भाग-३

विद्याशाखीय विशेष निवड (Discipline Specific Elective) E126

सत्र क्र. ६

अभ्यासपत्रिका क्र. XII– साहित्यविचार

Course Objectives (उद्दिष्टे)-

१. शब्दशक्तीचे आकलन करून घेणे.
२. साहित्यातील रसाचे स्वरूप व रसप्रक्रिया समजून घेणे.
३. निर्मितीच्या आनंदाची मीमांसा करून घेणे.
४. व्यवहारभाषा, शास्त्रभाषा आणि साहित्यभाषा यातील भेद समजून घेणे.
५. साहित्यभाषेचे आकलन करून घेणे.
६. भाषेतील छंद व वृत्ते यांचा अभ्यास करणे.

Programme Outcomes:

१. शब्दशक्तींचे आकलन करून घेतले.
२. साहित्यातील रसाचे स्वरूप व रसप्रक्रिया समजून घेतली.
३. निर्मितीच्या आनंदाची मीमांसा केली.
४. व्यवहारभाषा, शास्त्राभाषा आणि साहित्याभाषा यातील भेद समजून घेतले.
५. साहित्यभाषेचे आकलन करून घेतले.
६. भाषेतील छंद व वृत्ते यांचा अभ्यास केला.

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शैक्षणिक वर्ष २०२१ -२०२२

Choice Based Credit System

बी. ए. भाग-३

विद्याशाखीय विशेष निवड (Discipline Specific Elective) E127

सत्र क्र. ६

अभ्यासपत्रिका क्र. XIII– मराठी भाषा व भाषाविज्ञान

Course Objectives (उद्दिष्टे)-

१. मराठी भाषेची वर्णव्यवस्था समजून घेणे.
२. ध्वनी व अर्थपरिवर्तनाची कारणे व प्रकार यांची माहिती करून घेणे.
३. प्रमाणभाषेचे स्वरूप व विशेष अभ्यासणे.
४. बोलींचे स्वरूप व विशेष समजून घेणे.
५. मराठी भाषेबद्दलची विद्यर्थ्यांची आवड विकसित करणे.

Programme Outcomes:

१. मराठी भाषेची वर्णव्यवस्था समजून घेतली.
२. ध्वनी व अर्थपरिवर्तनाची करून व प्रकार यांची माहिती करून घेतली.
३. प्रमाणभाषेचे स्वरूप व विशेष अभ्यासले.
४. बोलींचे स्वरूप व विशेष समजून घेतले.
५. मराठी भाषेबद्दलची विद्याथ्र्यांची आवड विकसित केली.

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Choice Based Credit System

बी. ए. भाग-३

विद्याशाखीय विशेष निवड (Discipline Specific Elective) E128

सत्र क्र. ६

अभ्यासपत्रिका क्र. XIV – मध्ययुगीन मराठी वाङ् मयाचा इतिहास (इ. स. १५०० ते इ. स. १८००)

Course Objectives (उद्दिष्टे)-

१. मध्ययुगीन मराठी वाङ् मयाचा इतिहास कालिक अभ्यास करणे.
२. मध्ययुगीन मराठी वाङ् मयाचा स्थूल परिचय करून घेणे.
३. पंडित कवी व त्यांची रचना यांचा परिचय करून घेणे.
४. बखर वाङ् मय आणि शाहिरी वाङ् मय यांचे स्वरूप, विशेष अभ्यासणे.
५. मध्ययुगीन मराठी गद्य:, पद्य रचनेचे विशेष अभ्यासणे.

Programme Outcomes:

१. मध्ययुगीन मराठी वाङ्मयाचा कालिक अभ्यास केला.
२. मध्ययुगीन मराठी वाङ्मयाचा स्थूल परिचय करून घेतला.
३. पंडित कवी व त्यांची रचना यांचा परिचय करून घेतला.
४. बखर वाङ्मय आणि शाहिरी वाङ्मय यांचे स्वरूप, विशेष अभ्यासला.
५. मध्ययुगीन मराठी वाङ्मयाच्या गद्य, पद्य रचनेचे विशेष अभ्यासला.

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शैक्षणिक वर्ष २०२१ -२०२२

Choice Based Credit System

बी. ए. भाग-३

विद्याशाखीय विशेष निवड (Discipline Specific Elective) E129

सत्र क्र. ६

अभ्यासपत्रिका क्र. XV – मराठी भाषा व अर्थार्जनाच्या संधी.

Course Objectives (उद्दिष्टे)-

१. प्रसारमाध्यमातील अर्थार्जनाच्या संधी आणि भाषिक कौशल्ये यांचा परिचय करून घेणे.
२. स्पर्धा परीक्षांमध्ये मराठी भाषा विषयाचे महत्व समजून घेणे.
३. उद्योग व सेवा क्षेत्रात मराठी भाषेद्वारे अर्थार्जनप्राप्ती संदर्भात ज्ञान संपादन करणे.
४. मुद्रित शोधनाची पद्धत अभ्यासणे.

Programme Outcomes:

१. प्रसारमाध्यमातील अर्थाजनाच्या संधी आणि भाषिक कौशल्ये यांचा परिचय करून घेतला.
२. स्पर्धा परीक्षांमध्ये मराठी भाषा विषयाचे महत्त्व समजून घेतले.
३. उद्योग व सेवा क्षेत्रात मराठी भाषेद्वारे अर्थाजनप्राप्ती संदर्भात ज्ञान संपादन केले.
४. मुद्रित शोधनाची पद्धत अभ्यासले.

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शैक्षणिक वर्ष २०२१ -२०२२

Choice Based Credit System

बी. ए. भाग-३

विद्याशाखीय विशेष निवड (Discipline Specific Elective) E130

सत्र क्र. ६

अभ्यासपत्रिका क्र. XVI – वाङ् मय प्रकाराचे अध्ययन: ललित गद्य (व्यक्तिचित्रे)

पाठ्यपुस्तक : मुलखावेगळी माणसं

Course Objectives (उद्दिष्टे)-

१. ललित गद्य वाङ् मय प्रकाराचे स्वरूप अभ्यासणे.
२. व्यक्तिचित्र संकल्पना व स्वरूप समजून घेणे.
३. प्रवाहानुरूप मराठीतील व्याक्तीचित्रांचे स्वरूप अभ्यासणे.
४. 'मुलखावेगळी माणसं' मधील व्याक्तीविशेषांचे आकलन करून घेणे.
५. 'मुलखावेगळी माणसं' मधील शैक्षणिक , सामाजिक, सांस्कृतिक, राजकीय पर्यावरण आणि कौटुंबिक भावविश्व अभ्यासणे.
६. 'मुलखावेगळी माणसं' मधील ग्रामीण व उपेक्षितांच्या जीवनाचे आकलन करून घेणे.
७. 'मुलखावेगळी माणसं' मधील अभिव्यक्ती, निवेदनशैली व भाषाविशेष अभ्यासणे.

Programme Outcomes:

१. ललित गद्य वाङ्मयप्रकाराचे स्वरूप अभ्यासले.
२. व्यक्तिचित्र संकल्पना व स्वरूप समजून घेतली.
३. प्रवाहानुसार मराठीतील व्याक्तीचित्रांचे स्वरूप अभ्यासले.
४. 'मुलुखावेगळी माणसं' मधील व्यक्तीविशेषांचे आकलन करून घेतले.
५. 'मुलुखावेगळी माणसं' मधील शैक्षणिक, सामाजिक, राजकीय, पर्यावरण आणि कौटुंबिक भावविश्व अभ्यासले.
६. 'मुलुखावेगळी माणसं' मधील ग्रामीण व उपेक्षितांच्या जीवनाचे आकलन करून घेतले.
७. 'मुलुखावेगळी माणसं' मधील अभिव्यक्ती, निवेदनशैली व भाषाविशेष अभ्यासले.

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Course Objectives,

Programme Outcomes

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DEPARTMENT OF MARATHI

2021-22

M.A. Part I - Semester I

Discipline Specific Core Course (DSC-01): Marathi

भाषिक आविष्काराची रुपे Paper- 1 (Bhashik Avishkarachi Rupe)

Syllabus for M. A. MARATHI Programme To be introduced from June 2022 as per the Guidelines of NEP 2020

Course Objective

१. मराठी भाषा, साहित्याभ्यास व संशोधनास प्रोत्साहन देणे.
२. विद्यार्थ्यांच्या साहित्यिक कौशल्यांना चालना देणे.
३. संवेदनशील, विद्वान, सुसंस्कृत आणि आदर्श नागरिक बनविणे.
४. सेट / नेट परीक्षांच्या तयारीसाठी मार्गदर्शन करणे.
५. मराठीच्या विविध बोलीभाषेतील संशोधनास प्रोत्साहन देणे.
६. सर्जनशील लेखन आणि भाषिक कौशल्यांच्या उपयोजनासाठी प्रोत्साहन देणे.

PROGRAMME OUTCOME

१. विद्यार्थ्यांना मराठी साहित्य आणि भाषेचे विविध प्रवाह, वाङ्मयीन परंपरेचे ज्ञान होईल.
२. विद्यार्थ्यांना समाज आणि संस्कृतीकडे पाहण्याचे वैविध्यपूर्ण व नवे दृष्टिकोन प्राप्त होतील.
३. विद्यार्थ्यांना मराठी भाषा व साहित्यातील संशोधनाची माहिती असेल.
४. विद्यार्थी योग्य भाषा वापरण्यास सक्षम असतील.
५. विद्यार्थी सर्जनशील लेखन करू शकतील.
६. वेगवेगळ्या विद्याशाखांच्या विद्यार्थ्यांना भाषेचा वापर, भारतीय संस्कृती, ग्रंथेतिहास, ग्रंथ प्रकाशन, संहिता संपादन आणि सर्जनशील लेखन यांचे ज्ञान असेल.
७. नेट व सेट परीक्षांसह सर्व स्पर्धा परीक्षांचे प्रशिक्षण विद्यार्थ्यांकडे असणार आहे.
८. सदर कार्यक्रम भारताच्या चांगल्या भविष्यासाठी सर्जनशील, संवेदनशील, आदर्श, सुसंस्कृत, सुशिक्षित नागरिक बनविण्यात मदत करेल.

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2021-22

M.A. Part I - Semester I

Discipline Specific Elective Course (DSE-02): Marathi

विशेष साहित्यकृतींचा अभ्यास Paper- 2.2 (Vishesh Sahityakrutincha Aabhyas)

Syllabus for M. A. MARATHI Programme To be introduced from June 2022 as per the Guidelines of NEP 2020

Course Objective

१. साहित्याभ्यास व संशोधनास प्रोत्साहन देणे.
२. विद्यार्थ्यांच्या साहित्यिक कौशल्यांना चालना देणे.
३. विविध साहित्यप्रकारांचा परिचय करून देणे.
४. साहित्यकृतीतून लेखकाच्या समकालाचे प्रतिबिंब कशा प्रकारे प्रकट होते याचा अभ्यास करणे..
५. लेखकाचे वाङ्मयीन व्यक्तिमत्व आणि लेखक व त्यांचा समकाल समजावून देणे.

PROGRAMME OUTCOME

१. विद्यार्थ्यांना साहित्यिक कौशल्यांचे ज्ञान होईल.
२. विद्यार्थ्यांना विविध साहित्यप्रकारांचा परिचय व नवे दृष्टिकोन प्राप्त होतील.
३. विद्यार्थ्यांना मराठी भाषा व साहित्यातील संशोधनाची माहिती असेल.
४. साहित्यकृतीतून लेखकाच्या समकालाचे प्रतिबिंब कशा प्रकारे प्रकट होते याचे ज्ञान होईल.
५. लेखकाचे वाङ्मयीन व्यक्तिमत्व आणि लेखक व त्यांचा समकाल समजेल.

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2021-22

M.A. Part I - Semester I

Discipline Specific Core Course (DSC-02): Marathi

आधुनिक मराठी वाङ्मयाचा इतिहास(स्वातंत्र्यपूर्व काळ) Paper- 3

(Aadhunik Marathi Vadmyacha Ithaas(Swvtantryapurv kaal)

Syllabus for M. A. MARATHI Programme To be introduced from June 2022 as per the Guidelines of NEP 2020

Course Objective

१. मराठी साहित्याभ्यास व संशोधनास प्रोत्साहन देणे.
२. विद्यार्थ्यांच्या साहित्यिक कौशल्यांना चालना देणे.
३. संवेदनशील, विद्वान, सुसंस्कृत आणि आदर्श नागरिक बनविणे.
४. स्वातंत्र्यपूर्व काळातील विविध साहित्य प्रवाहांचा इतिहास अभ्यासताना त्या त्या प्रवाहात साहित्यप्रकारांचे स्वरूप वैशिष्टे अभ्यासणे.
५. स्वातंत्र्यपूर्व काळातील महाराष्ट्रातील सामाजिक राजकीय सांकृतिक जीवनाची पार्श्वभूमी समजून घेणे.

PROGRAMME OUTCOME

१. विद्यार्थ्यांच्या साहित्यिक कौशल्यांचा विकास होईल.
२. स्वातंत्र्यपूर्व काळातील विविध साहित्य प्रवाहांचा इतिहास अभ्यासताना त्या त्या प्रवाहात साहित्यप्रकारांचे स्वरूप वैशिष्टे ओळख होईल.
३. विविध साहित्य प्रवाहांचा परिचय होईल.
४. स्वातंत्र्यपूर्व काळातील विविध साहित्य प्रवाहांचा इतिहास अभ्यासताना त्या त्या प्रवाहात साहित्यप्रकारांचे स्वरूप वैशिष्टे समजून येतील.
५. स्वातंत्र्यपूर्व काळातील महाराष्ट्रातील सामाजिक राजकीय सांकृतिक जीवनाची पार्श्वभूमी समजून येईल.

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2021-22

M.A. Part I - Semester I

Discipline Specific Elective Course (DSE-04): Marathi

लोकसाहित्य व लोककला Paper- 4.2 (Loksaahity v Lokakala)

Syllabus for M. A. MARATHI Programme To be introduced from June 2022 as per the Guidelines of NEP 2020

Course Objective

१. लोकसाहित्य आणि लोककला परस्परसंबंध अभ्यासणे.
२. लोकसाहित्य आणि लोकसंस्कृती यांचा परस्परसंबंध समजून घेणे.
३. लोकसाहित्याची संकल्पना समजावून घेणे.
४. लोकसाहित्याच्या परंपरेची ओळख करून घेणे.

PROGRAMME OUTCOME

१. लोकसाहित्य आणि लोककला परस्परसंबंध यांचा परिचय होईल.
२. लोकसाहित्य आणि लोकसंस्कृती यांचा परस्परसंबंध समजून येईल.
३. लोकसाहित्याची संकल्पना समजून येईल.
४. लोकसाहित्याच्या परंपरेची ओळख होईल.

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M.A. Part I - Semester II

Discipline Specific Core Course (DSC-01): Marathi

साहित्यप्रकारांचा सूक्ष्म विचार Paper- 5 (Sahityprakarncha Sukshma Vichar)

Syllabus for M. A. MARATHI Programme To be introduced from June 2022 as per the Guidelines of NEP 2020

Course Objective

१. साहित्यप्रकारांचा सूक्ष्म विचार समजून घेणे.
२. साहित्यप्रकारातील विविध सिद्धांत, संकल्पनांचा परिचय करुन घेणे.
३. साहित्यप्रकारातील समाज, संस्कृती आणि भाषा यामधील परस्पर संबंध समजून घेणे.
४. साहित्यप्रकाराची व्याप्ती समजून घेणे.
५. साहित्यप्रकारातील विविधता समजून घेता येईल.

PROGRAMME OUTCOME

१. साहित्यप्रकारातील सूक्ष्म विचार समजून येईल.
२. साहित्यप्रकारातील विविध सिद्धांत संकल्पनांचा परिचय होईल.
३. साहित्यप्रकारातील समाज, संस्कृती आणि भाषा या मधील परस्पर संबंध समजून येईल.
४. साहित्यप्रकाराची व्याप्ती समजून येईल.
५. साहित्यप्रकारातील विविधता समजून येईल.

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M.A. Part I - Semester II

Discipline Specific Elective Course (DSE-08): Marathi

विशेष साहित्यकृतींचा अभ्यास Paper- 6.2 (Vishesh Sahityakrutincha Aabhyas)

Syllabus for M. A. MARATHI Programme To be introduced from June 2022 as per the Guidelines of NEP 2020

Course Objective

१. विशेष साहित्याभ्यास व संशोधनास प्रोत्साहन देणे.
२. विद्यार्थ्यांच्या साहित्यिक कौशल्यांना चालना देणे.
३. विविध साहित्यप्रकारांचा परिचय करून देणे.
४. साहित्यकृतीतून लेखकाच्या समकालाचे प्रतिबिंब कशा प्रकारे प्रकट होते याचा अभ्यास करणे..
५. लेखकाचे वाङ्मयीन व्यक्तिमत्व आणि लेखक व त्यांचा समकाल समजावून देणे.

PROGRAMME OUTCOME

१. विद्यार्थ्यांना साहित्यिक कौशल्यांचे ज्ञान होईल.
२. विद्यार्थ्यांना विविध साहित्यप्रकारांचा परिचय व नवे दृष्टिकोन प्राप्त होतील.
३. विद्यार्थ्यांना मराठी भाषा व साहित्यातील संशोधनाची माहिती असेल.
४. साहित्यकृतीतून लेखकाच्या समकालाचे प्रतिबिंब कशा प्रकारे प्रकट होते याचे ज्ञान होईल.
५. लेखकाचे वाङ्मयीन व्यक्तिमत्व आणि लेखक व त्यांचा समकाल समजेल.

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M.A. Part I - Semester II

Discipline Specific Core Course (DSC-02): Marathi

आधुनिक मराठी वाङ्मयाचा इतिहास(स्वातंत्र्योत्तर काळ २००० पर्यंत) Paper- 7

(Aadhunik Marathi Vadmyacha Ithaas(Swvtantryottar kaal 2000 Pryant)

Syllabus for M. A. MARATHI Programme To be introduced from June 2022 as per the Guidelines of NEP 2020

Course Objective

१. आधुनिक मराठी वाङ्मयाचा साहित्याभ्यास व संशोधनास प्रोत्साहन देणे.
२. विद्यार्थ्यांच्या साहित्यिक कौशल्यांना चालना देणे.
३. संवेदनशील, विद्वान, सुसंस्कृत आणि आदर्श नागरिक बनविणे.
४. स्वातंत्र्यपूर्व काळातील विविध साहित्य प्रवाहांचा इतिहास अभ्यासताना त्या त्या प्रवाहात साहित्यप्रकारांचे स्वरूप वैशिष्टे अभ्यासणे.
५. स्वातंत्र्यपूर्व काळातील महाराष्ट्रातील सामाजिक राजकीय सांकृतिक जीवनाची पार्श्वभूमी समजून घेणे.

PROGRAMME OUTCOME

१. विद्यार्थ्यांच्या आधुनिक मराठी वाङ्मयाचा कौशल्यांचा विकास होईल.
२. स्वातंत्र्यपूर्व काळातील विविध साहित्य प्रवाहांचा इतिहास अभ्यासताना त्या त्या प्रवाहात साहित्यप्रकारांचे स्वरूप वैशिष्टे ओळख होईल.
३. विविध साहित्य प्रवाहांचा परिचय होईल.
४. स्वातंत्र्यपूर्व काळातील महाराष्ट्रातील सामाजिक राजकीय सांकृतिक जीवनाची पार्श्वभूमी समजून येईल.

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M.A. Part I - Semester II

Discipline Specific Elective Course (DSE-11): Marathi

लोकसाहित्य व लोककला Paper- 8.2 (Loksaahity v Lokakala)

Syllabus for M. A. MARATHI Programme To be introduced from June 2022 as per the Guidelines of NEP 2020

Course Objective

१. लोकसाहित्य आणि लोककला परस्परसंबंध अभ्यासणे.
२. लोकसाहित्य आणि लोकसंस्कृती यांचा परस्परसंबंध समजून घेणे.
३. लोकसाहित्याची संकल्पना समजावून घेणे.
४. लोकसाहित्याच्या परंपरेची ओळख करून घेणे.

PROGRAMME OUTCOME

१. लोकसाहित्य आणि लोककला परस्परसंबंध यांचा परिचय होईल.
२. लोकसाहित्य आणि लोकसंस्कृती यांचा परस्परसंबंध समजून येईल.
३. लोकसाहित्याची संकल्पना समजून येईल.
४. लोकसाहित्याच्या परंपरेची ओळख होईल.

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M.A. Part II - Semester III

Generic Elective Core (GEC-1): Marathi (Course-A)

सामाजभाषाविज्ञान Paper- 9 (Smajbhashavidnyan)

C. B. C. S. with M.E. & M. E. in accordance with N.E.P. – 2020(June 2022 onward)

Course Objective

१. समाजभाषाविज्ञानाचे स्वरूप समजून घेणे.
२. समाजभाषाविज्ञानातील विविध सिद्धांत, संकल्पनांचा परिचय करुन घेणे.
३. समाज, संस्कृती आणि भाषा यामधील परस्पर संबंध समजून घेणे.
४. समाजभाषाविज्ञानाची व्याप्ती समजून घेणे.
५. भाषाव्यवहाराची विविधता समजून घेता येईल.
६. भाषासंपर्काचे स्वरुप अभ्यासता येईल.
७. भाषिक नियोजन म्हणजे काय ते समजून घेता येईल.
८. बहुभाषिक देशांतील भाषिक प्रश्नांचा परिचय होईल.
९. भाषिक नियोजनाची उद्दिष्ट्ये जाणून घेता येतील.
१०. भाषाशिक्षणाचे स्वरूप आणि भाषाशिक्षणाच्या विविध बाजूंचा अभ्यास करता येईल.
११. मराठीच्या विविध बोलींचा समाजभाषावैज्ञानिक विचार करता येईल.

PROGRAMME OUTCOME

१. समाजभाषाविज्ञानाचे स्वरूप समजून घेतले.
२. समाजभाषाविज्ञानातील विविध सिद्धांत, संकल्पनांचा परिचय करून घेतला.
३. समाज, संस्कृती आणि भाषा यामधील परस्पर संबंध समजून घेतला.
४. समाजभाषाविज्ञानाची व्याप्ती समजून घेतली.
५.भाषाव्यवहाराची विविधता समजून भाषा स्वरूप अभ्यासते.
६.भाषा संपर्काचे स्वरूप समजून घेतले.
७. भाषिक नियोजन म्हणजे काय ते समजून घेतले.
८. बहुभाषिक देशातील भाषिकांचा प्रश्नांचा परिचय झाला.
९. भाषिक नियोजनाची उद्दिष्टे जाणून घेता आली.
१०. भाषा शिक्षणाचे स्वरूप आणि भाषा शिक्षणाच्या विविध बाजूंचा अभ्यास करता आला.
११. मराठीच्या विविध बोलींचा सामाजभाषा वैज्ञानिकविचार करता आला.

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M.A. Part II - Semester III

Generic Elective Core (GEC-1): Marathi (Course-A)
वाङ्मयीन संस्कृती Paper- 10.1 (Vangyamayin Sanskruti)

C. B. C. S. with M.E. & M. E. in accordance with N.E.P. – 2020(June 2022 onward)

Course Objective

१. वाङ्मयीन संस्कृती ही संकल्पना समजून घेणे.
२. समाज आणि संस्कृती यातील अनुबंध लक्षात घेणे.
३. मौखिक आणि लिखित परंपरेत वाङ्मयीन परंपरेला संघटित करणाऱ्या घटकांचा विचार करणे.
४. वाङ्मयीन संस्कृतीचे स्वरुप तपासणे.

PROGRAMME OUTCOME

१. वाङ्मयीन संस्कृती ही संकल्पना समजून घेतली.

२. समाज आणि संस्कृती यातील अनुबंध लक्षात घेतला.

३. मौखिक अन लिखित परंपरेत वाङ्मयीन परंपरेला संघटीत

४. वाङ्मयीन संस्कृतीचे स्वरूप तपासले.

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M.A. Part II - Semester III

Generic Elective Core (GEC-1): Marathi (Course-A)

समीक्षा सिद्धांत आणि उपयोजन Paper- 11 (Samiksha Sidhant Ani Upayojan)

C. B. C. S. with M.E. & M. E. in accordance with N.E.P. – 2020(June 2022 onward)

Course Objective

१) उपयोजित समीक्षेतील काही समीक्षेचे स्वरुप माहिती करुन घेणे.

२) समाजशास्त्रीय व आदिबंधात्मक समीक्षा या समीक्षाप्रवाहांचा विचार करणे.

३) प्रत्यक्ष उपयोजित समीक्षेचे उपयोजन म्हणून निवडक साहित्यकृतींचा विचार करणे.

PROGRAMME OUTCOME

१. उपयोजन समीक्षेतील काही समीक्षेचे स्वरूप माहिती करून घेतले.

२. समाजशास्त्रीय व आदिबंधात्मक समीक्षा या समीक्षाप्रवाहांचा विचार केला.

३. प्रत्यक्ष उपयोजित समीक्षेचे उपयोजन म्हणून निवडक साहित्यकृतींचा विचार केला.

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M.A. Part II - Semester III

Generic Elective Core (GEC-1): Marathi (Course-A)

बोली अभ्यास Paper- 12.3 (Boli Abhyas)

C. B. C. S. with M.E. & M. E. in accordance with N.E.P. – 2020(June 2022 onward)

Course Objective

१. भाषा, बोली आणि समाजाचा परस्परसंबंध अभ्यासणे.
२. प्रमाणभाषा आणि बोली स्वरुप, विशेष समजून घेणे.
३. बोलीभाषांची निर्मितीप्रक्रिया अभ्यासणे.
४. बोलीच्या अभ्यासाचे महत्त्व समजून घेणे.

PROGRAMME OUTCOME

१. मराठी भाषा, साहित्य अभ्यास व संशोधनास प्रोत्साहन देणे.
२. राष्ट्रासाठी संवेदनशील विद्वान सुसंस्कृत आणि आदर्श नागरिक बनविणे.
३. स्पर्धा परीक्षांच्या तयारीसाठी मार्गदर्शन करणे.
४. मराठीच्या विविध बोली भाषेतील संशोधनास प्रोत्साहन देणे.
५. सृजनशील लेखन आणि भाषिक कौशल्यांच्या उपयोजनासाठी प्रोत्साहन दिणे.
६. मराठी भाषा व भाषा विज्ञान, मराठीतील साहित्य, मराठी भाषेचे सामर्थ्य, मराठी भाषेचे वेगळेपण याविषयींची माहिती विद्यार्थिनींना करून देणे.
७. मराठी भाषेचे व्यवहारातील उपयोजन विद्यार्थिनींना सांगणे.
८. मराठी भाषा आणि भाषांतर, अनुवाद याविषयीची माहिती देणे.

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Generic Elective Core (GEC-1): Marathi (Course-A)

सामाजाभाषाविज्ञान Paper- 13 (Samajbhashavidnyan)

C. B. C. S. with M.E. & M. E. in accordance with N.E.P. – 2020(June 2022 onward)

Course Objective

१. समाजभाषाविज्ञानाचे स्वरूप समजजून घेणे.
२. समाजभाषाविज्ञानातील विविध सिद्धांत, संकल्पनांचा परिचय करुन घेणे.
३. समाज, संस्कृती आणि भाषा यामधील परस्पर संबंध समजून घेणे.
४. समाजभाषाविज्ञानाची व्याप्ती समजून घेणे.
५. भाषाव्यवहाराची विविधता समजून घेता येईल.
६. भाषासंपर्काचे स्वरुप अभ्यासता येईल.
७. भाषिक नियोजन म्हणजे काय ते समजून घेता येईल.
८. बहुभाषिक देशांतील भाषिक प्रश्नांचा परिचय होईल.
९. भाषिक नियोजनाची उद्दिष्ट्ये जाणून घेता येतील.
१०. भाषाशिक्षणाचे स्वरूप आणि भाषाशिक्षणाच्या विविध बाजूंचा अभ्यास करता येईल.
११. मराठीच्या विविध बोलींचा समाजभाषावैज्ञानिक विचार करता येईल.

PROGRAMME OUTCOME

१. समाजभाषा विज्ञानाचे स्वरूप समजून घेणे.
२. समाजभाषा विज्ञानातील विविध सिद्धांत संकल्पनांचा परिचय करून देणे,
३. समाज, संस्कृती आणि भाषा या मधील परस्पर संबंध समजून घेणे.
४. समाजभाषा विज्ञानाची व्याप्ती समजून घेणे.
५. भाषा व्यवहाराची विविधता समजून घेता येईल
६. भाषा संपर्काचे स्वरूप अभ्यासता येईल
७. भाषिक नियोजन म्हणजे काय ते समजून घेता येईल.
८. बहुभाषिक देशातील भाषिक प्रश्नांचा परिचय होईल.
९. भाषिक नियोजनाची उद्दिष्ट्ये जाणून घेता येतील.
१०. भाषा शिक्षणाचे स्वरूप आणि भाषा शिक्षणाच्या विविध बाजूंचा अभ्यास करता येईल.
११. मराठीच्या विविध बोलीचा समाज भाषा वैज्ञानिक विचार करता येईल.

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Generic Elective Core (GEC-1): Marathi (Course-A)

वाङ्मयीन संस्कृती Paper- 14.1(Vangmayin Sanskruti)

C. B. C. S. with M.E. & M. E. in accordance with N.E.P. – 2020(June 2022 onward)

Course Objective

१) वाङ्मयीन अभिरूचीचा वाङ्मयीन संस्कृतीवर कसा प्रभाव पडतो हे तपासणे.

२) कोणत्याही काळात समाज प्रबोधनासाठी वाङ्मयीन संस्कृती कशाप्रकारे कारणीभूत ठरते याचा विचार करणे.

३) वाङ्मयीन संस्कृतीचे स्वरूप तपासणे.

४) वाङ्मयीन संस्कृती बदलांमध्ये परिणाम करणाऱ्या वेगवेगळ्या घटकांचा विचार करणे.

PROGRAMME OUTCOME

1. वाङ्मयीन संस्कृती ही संकल्पना समजून घेणे
2. समाज आणि संस्कृती यातील अनुबंध लक्षात घेणे.
3. मौखिक आणि लिखित परंपरेत वाङ्मयीन परंपरेला संघटीत करणाऱ्या घटकांचा विचार करणे.
4. वाङ्मयीन संस्कृती बदलामध्ये परिणाम करणाऱ्या विविध घटकांचा विचार केला जाईल.

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Generic Elective Core (GEC-1): Marathi (Course-A)

मराठी समीक्षेची वाटचाल Paper- 15 (Marathi Samikshechi Vatchal)

C. B. C. S. with M.E. & M. E. in accordance with N.E.P. – 2020(June 2022 onward)

Course Objective

१) मराठी समीक्षाविचाराचे स्वरुप व परंपरा जाणून घेणे.

२) मराठीतील सैद्धान्तिक व उपयोजित समीक्षेचे स्वरुप माहिती करुन घेणे.

३) मराठी समीक्षा वाटचालीतील प्रमुख विचारांचा परिचय करुन घेणे.

PROGRAMME OUTCOME

१. मराठी समीक्षा विचारांचे स्वरूप व परंपरा.

२. मराठीतील सैद्धांतिक व उपयोजित समीक्षेचे स्वरूप व माहिती करून घेणे जाणून घेणे.

३. मराठी समीक्षा वाटचालीतील प्रमुख विचारांचा परिचय करून घेणे.

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Generic Elective Core (GEC-1): Marathi (Course-A)

बोली अभ्यास Paper- 16.3 (Boli Abhyas)

C. B. C. S. with M.E. & M. E. in accordance with N.E.P. – 2020(June 2022 onward)

Course Objective

१. बोलीची संरचना अभ्यासणे.

२. बोलीचा समाजभाषावैज्ञानिक दृष्टिकोनातून विचार करणे.

३. बोली भूगोल ही संकल्पना समजून घेणे.

४. कोल्हापुरी बोलीचे क्षेत्रिय संशोधन करणे.

PROGRAMME OUTCOME

1. बोलीची संरचना अभ्यास व संशोधनास प्रोत्साहन देणे.
2. राष्ट्रासाठी संवेदनशील विद्वान सुसंस्कृत आणि आदर्श नागरिक बनविणे.
3. बोलीचा समाजभाषावैज्ञानिक दृष्टिकोनातून संशोधनास प्रोत्साहन देणे.
4. सृजनशील लेखन आणि भाषिक कौशल्यांच्या उपयोजनासाठी प्रोत्साहन दिणे.
5. मराठी भाषा व भाषा विज्ञान, मराठीतील साहित्य, मराठी भाषेचे सामर्थ्य, मराठी भाषेचे वेगळेपण याविषयींची माहिती विद्यार्थिनींना करून देणे.
6. मराठी भाषेचे व्यवहारातील उपयोजन विद्यार्थिनींना सांगणे.
7. मराठी भाषा आणि भाषांतर, अनुवाद याविषयीची माहिती देणे.

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भारती विद्यापीठ संचालित,

मातोश्री बयाबाई श्रीपतराव कदम कन्या महाविद्यालय, कड़ेगांव

हिंदी विभाग

बी. ए. भाग – 1 शैक्षिक वर्ष - 2021 – 2022

Course Out come

विषय - हिंदी (अनिवार्य हिंदी)

प्रथम सत्र – प्रश्नपत्र – A सृजनात्मक लेखन

द्वितीय सत्र – प्रश्नपत्र – B व्यवहारिक लेखन

उद्देश्य :

- छात्राओं को हिंदी भाषा तथा व्याकरण का अध्ययन कराना।
- सृजनात्मक लेखन की विविध विधाओं से छात्राओं को परिचित कराना। जैसे – कविता, कहानी, यात्रावृत्त, रिपोर्ताज, साक्षात्कार, दृश्य साहित्य, पत्रकारिता आदि।
- सृजनात्मक लेखन के विविध क्षेत्रों से छात्राओं को अवगत कराना। साथ ही सृजनात्मक लेखन के विविध क्षेत्रों के महत्व तथा उपयोगिता से छात्राओं को अवगत कराना और उनके व्यवहारिक जगत के उपयोग से परिचित कराना।
- छात्राओं को हिंदी के विविध रूपों से परिचित कराना।
- प्रयोजनमूलक हिंदी का परिचय छात्रों से कराना। पत्राचार का स्वरूप तथा प्रकारों से छात्रों को अवगत कराना ।
- अनुवाद, विज्ञापन और समाचार लेखन विधि से छात्रों को परिचित कराना। व्यवहारिक लेखन के महत्व को तथा उपयोगिता से छात्रों को परिचित कराना।

विषय - विशेष (ऐच्छिक हिंदी)

प्रथम सत्र – प्रश्नपत्र – 1 हिंदी कविता

द्वितीय सत्र – प्रश्नपत्र – 2 हिंदी गद्य साहित्य

उद्देश्य :

- छात्राओं की हिंदी साहित्य के प्रति रूचि बढ़ाना तथा छात्राओं को साहित्य की विविध विधाओं से परिचित कराना।
- छात्राओं को हिंदी के प्रतिनिधि गद्यकारों एवं कवियों से परिचित कराना।
- छात्राओं में हिंदी भाषा के श्रवण, पठन एवं लेखन की क्षमताओं को विकसित कराना।
- निबंध, कहानी, रेखाचित्र, एकांकी, रिपोर्ताज, संस्मरण, व्यंग्य आदि विधाओं के माध्यम से छात्राओं में भावात्मक विकास दृढ करना।
- छात्राओं में नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था और विश्वास निर्माण करना।
- छात्राओं में राष्ट्र के प्रति प्रेम, राष्ट्रीय ऐक्य, अपना एवं सामाजिक प्रतिबद्धता हेतु राष्ट्रभाषा हिंदी का प्रचार प्रसार करना।
- छात्राओं की विचार क्षमता को बढ़ाना, साथी ही कल्पना शक्ति को बढ़ावा देना।

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विषय - हिंदी ऐच्छिक

सत्र – 3 प्रश्नपत्र – 3 अस्मिता मूलक विमर्श और हिंदी गद्य साहित्य

सत्र – 4 प्रश्नपत्र – 5 रोजगार परक हिंदी

उद्देश्य :

- कथा साहित्य का स्वरूप तत्व एवं प्रकारों से छात्राओं को अवगत कराना।
- समीक्षा के मानदंडों के आधार पर कथा साहित्य का अध्ययन करने की पद्धति से छात्राओं को परिचित कराना।
- कथेतर साहित्य का समीक्षात्मक करना साथ ही कथा और कथेतर साहित्य का वर्तमान प्रासंगिकता के साथ अध्ययन करना।
- छात्रों में या छात्राओं में हिंदी में कार्य करने की विचार क्षमता, कल्पनाशीलता एवं रुचि विकसित कराना।
- रोजगार उन्मुख शिक्षा एवं कौशल्य छात्राओं को प्रदान करना।
- कार्यालय और व्यवसाय में हिंदी प्रयोग का कौशल्य ज्ञान छात्राओं में विकसित कराना।
- छात्राओं को पत्राचार के स्वरूप का परिचय कराना।
- व्यवहारिक जगत में अनुवाद और व्यवहारिक लेखन का महत्व तथा उपयोगिता से छात्रों को या छात्राओं को परिचित कराना।
- छात्राओं में हिंदी भाषा के श्रवण, पठन एवं लेखन कौशल्य को विकसित कराना आदि।

सत्र – 3 प्रश्नपत्र – 4 हिंदी संत काव्य तथा राष्ट्रीय काव्यधारा

सत्र – 4 प्रश्नपत्र – 6 अस्मिता अस्मिता मूलक विमर्श और हिंदी पद्य साहित्य

उद्देश्य :

- छात्राओं की हिंदी साहित्य के प्रति रूचि बढ़ाना तथा छात्रों को साहित्य की विविध विधाओं से परिचित कराना।
- छात्राओं को मध्यकालीन हिंदी कवियों से परिचित कराना।
- छात्राओं को नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण करना।
- छात्राओं को आधुनिक हिंदी कविता में चित्रित विविध विमर्श से परिचित कराना।
- छात्रों में या छात्राओं में हिंदी भाषा के श्रवण, पठन एवं लेखन की क्षमता को विकसित करना।
- छात्राओं की हिंदी साहित्य के प्रति रुचि को दृढ करना और छात्राओं को साहित्य की विभिन्न विधाओं से परिचित कराना।
- छात्राओं को पद्य साहित्य की विभिन्न विधाओं से अवगत कराना आदि।

बी. ए. भाग – 3 शैक्षिक वर्ष - 2021 – 2022

विषय - हिंदी स्पेशल

सत्र – 5 प्रश्नपत्र – 7 विधा विशेष का अध्ययन

सत्र – 6 प्रश्नपत्र – 12 विधा विशेष का अध्ययन

उद्देश्य :

- नाटककार कुसुम कुमार की बहुमुखी प्रतिभा से छात्राओं को परिचित कराना।
- नाटक के सैद्धांतिक तत्व से छात्राओं को अवगत कराना।
- नाटककार कुसुम कुमार के साहित्य से और उनके जीवन परिचय से छात्राओं को परिचित कराना।
- नाटककार कुसुम कुमार की विचारधारा से छात्राओं को अवगत कराना।
- नाटककार कुसुम कुमार के निर्धारित ग्रंथ का सूक्ष्म आलोचनात्मक अध्ययन कराना।
- नाटककार कुसुम कुमार के नाटक के क्षेत्र में आए हुए योगदान से छात्राओं को परिचित कराना।
- उपन्यास विधा के तात्विक स्वरूप से छात्राओं को परिचित कराना।
- उपन्यासकार चंद्रकांता के व्यक्तित्व एवं कृतित्व से छात्राओं को अवगत कराना।
- रचना विशेष का महत्व समझने एवं मूल्यांकन करने की क्षमता छात्रों में या छात्राओं में निर्माण करना।
- छात्राओं में रचना के आस्वादन एवं समीक्षा की क्षमता विकसित करना।
- पाठ्यक्रम में निर्धारित उपन्यास की प्रासंगिकता से छात्राओं को परिचित कराना आदि।

सत्र – 5 प्रश्नपत्र – 8 साहित्यशास्त्र

सत्र – 6 प्रश्नपत्र – 13 साहित्यशास्त्र और हिंदी आलोचना

उद्देश्य :

- छात्राओं में साहित्य निर्मिती की प्रक्रिया का बोध कराना।
- छात्राओं को साहित्य तथा काव्य के विभिन्न अंगों, भेदों आदि से परिचित कराना।
- छात्राओं को साहित्य या काव्य की नवीन विधाओं से परिचित कराना।
- छात्राओं को समीक्षा के सिद्धांतों से अवगत कराना।
- छात्राओं को साहित्य या काव्य के विभिन्न तत्वों से अवगत कराना।
- छात्राओं को हिंदी भाषा में प्रयोग में लाए जाने वाले अलंकारों से परिचित करवाना। छात्रों को आलोचना के स्वरूप एवं प्रकारों से परिचित कराना आदि।

सत्र – 5 प्रश्नपत्र – 9 हिंदी साहित्य का इतिहास

सत्र – 6 प्रश्नपत्र – 14 हिंदी साहित्य का इतिहास

उद्देश्य :

- हिंदी भाषा तथा साहित्य की विकास यात्रा से छात्राओं को अवगत कराना।
- छात्राओं को हिंदी साहित्य की विकास यात्रा में हिंदी भाषा के माध्यम से अलग-अलग विचारधारा और प्रवृत्तियों से अवगत कराना।
- छात्राओं में साहित्य समझने तथा उसका आस्वादन मूल्यांकन करने की दृष्टि को बढ़ावा देना।
- छात्राओं को साहित्य के संदर्भ में विभिन्न साहित्यिक विधाओं के विकास क्रम से परिचित कराना।
- छात्राओं को युगीन सामाजिक, राजनीतिक परिस्थितियों के परिप्रेक्ष्य में हिंदी से अवगत कराना।
- छात्राओं में इतिहासकारों द्वारा प्रस्तुत काल विभाजन और नामकरण को जानने के लिए प्रेरित कराना।
- छात्राओं को हिंदी के प्रमुख संत कवि उनकी रचनाएं और उनका समाज सुधार में योगदान आदि से परिचित कराना।
- छात्राओं को हिंदी साहित्य के अंतर्गत गद्य और पद्य विधा तथा उसके भेदों, उप भेदों से अवगत कराना।
- छात्राओं को हिंदी साहित्य के इतिहास से परिचित कराना आदि ।

सत्र – 5 प्रश्नपत्र – 10 प्रयोजनमूलक हिंदी

सत्र – 6 प्रश्नपत्र – 15 प्रयोजनमूलक हिंदी

उद्देश्य :

- हिंदी में कार्य करने की रुचि छात्राओं में विकसित करना।
- छात्राओं को रोजगार उन्मुख शिक्षा एवं कौशल्या प्रदान करना।
- छात्राओं को पारिभाषिक शब्दावली से परिचित कराना।
- छात्राओं को सरकारी पत्राचार के स्वरूप से अवगत कराना।
- छात्राओं को जनसंचार के एवं इलेक्ट्रॉनिक माध्यमों से परिचित कराना।
- छात्राओं को अनुवाद स्वरूप, महत्व तथा उपयोगिता आदि से अवगत कराना। छात्राओं को रोजगार परक हिंदी की उपयोगिता परिचित कराना। साथ ही प्रयोजनमूलक हिंदी के महत्व से छात्राओं को परिचित कराना।

सत्र – 5 प्रश्नपत्र – 11 भाषा विज्ञान और हिंदी भाषा

सत्र – 6 प्रश्नपत्र – 16 भाषा विज्ञान और हिंदी भाषा

उद्देश्य :

- भाषा के विविध रूपों का परिचय छात्राओं को करवाना।
- छात्राओं को भाषा विज्ञान के सामान्य परिचय से अवगत कराना।
- छात्राओं में हिंदी भाषा एवं लिपि के उद्भव और विकास का परिचय कराना।
- भाषा की शुद्धता के प्रति छात्रों को जागृत करना।
- मानक हिंदी वर्तनी और व्याकरण से छात्रों को अवगत कराना।
- छात्राओं को हिंदी भाषा के विभिन्न बोली और हिंदी भाषा के उद्भव और विकास से परिचित कराना।
- छात्रों को भाषा विज्ञान का स्वरूप, भाषा विज्ञान का महत्व तथा भाषा विज्ञान का अन्य विज्ञानों से संबंध आदि से परिचित कराना।

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Bharati Vidyapeeth's

Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon

Department of History

Course Objectives

And

Course Outcomes

(Year- 2021-2022)

Bharati Vidyapeeth

Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya Kadegaon

DEPARTMENT OF HISTORY

PROGRAMME OUTCOMES

BACHELOR OF ARTS (B. A.)

After completion of the B. A. Programme, the students will develop ability:

- Understand knowledge in the field of humanities.
- Cultured and good citizen of India.
- Get employment.
- Understand fundamental values of Indian Constitution.
- Use communication and soft skills.
- Socially conscious.
- All round personality development of the learners.

PROGRAMME SPECIFIC OUTCOMES

After completion of the programme, the students will develop ability:

- Study the history of various countries in the world.
- Study and interpret history objectively.
- Understand the change and impact of the revolutionary events.
- Understand the events of Indian freedom struggle and contribution of the freedom fighters to themaking of modern India.
- Realize the role of social reform movements in the development of modern India.

B.V.M.B.S.K. Kanya Mahavidyalaya KADEGAON

COURSE OUTCOMES

B.A. Part-I : Semester I:

Paper I: Rise of the Maratha Power (1600-1707)

1. Become aware of the history of the Rise of Maratha Power with the emphasis on life and work of Chhatrapati Shivaji Maharaj.
2. Acquaint with the sacrifices made by Maratha leaders and people for the sake of freedom and sovereignty of the region.
3. Understand the Era of Marathas struggle in the history from 1600 to 1707. After that, Chhatrapati Shivaji Maharaj established the Maratha state. Later on, Chhatrapati Sambhaji, Chhatrapati Rajaram and Maharani Tarabai led the Maratha struggle of independence against the Mughal Rule.

Semester II,

Paper II: Polity, Society and Economy under the Marathas (1600-1707)

1. Understand the period from 1600 to 1707 as rapid change in the history of Marathas. Chhatrapati Shivaji Maharaj established the Maratha state and initiated fundamental changes in the political, socio-economic and cultural life of the state.
2. Understand the political, socio-economic and religious life of the people during the period from 1600-1707. They will also get acquainted with the policy and contribution of Chhatrapati Shivaji Maharaj.

B.A. Part-II : Semester-III & IV
Paper No. III : History of Modern Maharashtra (1900-1960)

After studying the course, the student will be able to

1. Understand the beginning and growth of nationalist consciousness in Maharashtra
2. Explain the contribution of Maharashtra to the national movement.
3. Give an account of various movements of the peasants, workers, women and backward classes.
4. Know the background and events which led to the formation of Maharashtra

Semester-III:
Paper No. IV: History of India

After studying the course, the student will be able to

1. Acquaint herself with significant events leading to establishment of rule of East India Company
2. Know the colonial policy adopted by the company to consolidate its rule in India.
3. Understand the structural changes initiated by colonial rule in Indian economy
4. Explain the various revolts against rule of the East India Company

B.A. Part-II: Semester-IV:
Paper –V: History of Modern Maharashtra (1960-2000)

After studying the course, the student will be able to

1. Acquaint herself with the contribution of eminent leaders of Maharashtra .
2. Know about the economic transformation of Maharashtra.
3. Understand the salient features of changes in society.
4. Explain the growth of education.

B.A. Part-II: Semester-IV:
Paper –VI: History of Freedom Struggle (1858-1947)

After studying the course, the student will be able to

1. Understand the events which lead to the growth of nationalism in India
2. Acquaint himself with the freedom struggle under the leadership of Mahatma Gandhi
3. Explain the contribution of Revolutionaries, Left Movement, and Indian National Army.
4. Understand the gravity of Communalism and the partition of India

B.A. Part III: HISTORY:

Semester-V :

Paper No. - VII - History of Ancient India (From Prehistory to 3rd C. BC)

1. Understand the Pre & Proto history such as Paleolithic to Mesolithic, Neolithic & Harappa Civilization.
2. Understand deeply insights into Ancient History and Civilization
3. Acquaint with Vedic Culture, Early Vedic Culture, Later VedicCulture & Megalithic Age.
4. Understand Ancient Indian History during 6th C. BC: SecondUrbanization, 16 Mahajanapadas, Jainism and Buddhism.
5. Understand Ancient Indian Maurya Period Sources: Arthashastra and Indica, Major Kings and their achievements, Mauryan Administration, Religion (Ashoka's Dhamma) and Art.

Paper No. - VIII- History of Ancient India (From 3rd C. BC to 7th C.AD)

1. Understand The Satavahanas and Kushanas Kingdoms in Ancient India: Sources - Gatha Saptashati, Periplus of Erythrean Sea, Major Kings and their achievements: (i) Satkarni I, Gautamiputra Satkarni, Vasisthiputra Pulumavi (ii) Kanishka, Economy: Trade and Industry and Art and Architecture (Stupa and Cave Architecture)
2. Understand The Gupta-Vakataka Kingdoms: Kings and their achievements: Major Rulers of both dynasties, Society and Economy, Literature-sciences and Concept of Greater India, Religion & Art (Sculptures, Ajanta Paintings)-Architecture (Ajanta Caves and Beginning of Temples in MP)
3. Understand Post Gupta Period: Sources: Huen-tsan, Vardhans Kingdom: (brief political outline), Early Chalukyas (brief political outline), Early Pallavas (brief political outline).
4. Acquaint with Auxiliary Science for studying ancient India such as Archaeology-Meaning & Nature, Type of Excavations, Nature of archaeological remains, Iconography: Meaning & Nature, Mudra/Asanas, Attributes of Vishnu & Shiva icons, Epigraphy: Meaning & Nature, Types of Edicts, Major Edicts (Ashoka's Edicts, Aihole Edict), Numismatics: Meaning & Nature, Major Coins (PMC, Greek, Kushanas, Gupta).

Paper No. - IX - Political History of Medieval India (1206 to 1707 A.D.)

1. Understand the Sources such as Literary Sources of Medieval Indian History like Tarikh-i-Fruzshahi (Ziauddin Barani), Akbarnama, Amuktyamalyda, Gulashan-e-Ibrahimi; Archaeological and Foreign travelers' account: Ibn Batuta, Bernier, Domingo Paes.
2. Understand Major Sultans in Medieval India such as Allauddin Khilaji, Muhammad-bin-Tughlaq and their Administrative Systems-Iqta.

3. Understand Medieval Indian Mughal Emperors such as Akbar, Aurangzeb and their Administrative Systems-Mansab and Jagir.
4. Understand contemporary Provincial Major Rulers in Medieval Period such as Krishnadevraya, Ibrahim Adilshah II and Chandbibi

Paper No. - X- Socio-Economic and Cultural History of Medieval India (1206 to 1707 A.D.)

1. Understand the Rural Economy and Society during Medieval period such as Agriculture and Irrigation, Land revenue system and Village Community.
2. Understand Industry and Trade during Medieval period such as Industry, Trade: internal and external and Trading Communities.
3. Understand Religion and Culture in Bhakti Movement (Tulasidas, Kabir), Sufi and Sikhs of Medieval India.
4. Understand Cultural Development in the Medieval Indian arts such as Visual (Paintings, Calligraphy, Sculpture), Performing Art (Music, Dance, Vocal), Architecture (Sultanate, Mughal, Adilshahi, Vijaynagar).

Paper No. - XI - India since Independence –I

1. Understand the major developments and the status After independence India
2. Understand the establishments of major political parties in Post-Independence India.
3. Understand the Agriculture Development in Post-Independence India.
4. Understand the Industry & Trades developments in Post-Independence India.

Paper No. - XII - India since Independence –II

1. Understand the Selected Foreign policies in Post-Independence India. Such as Non alignment movement and India's role in international politics: U.S.A and U.S.S.R, India's relation with neighboring countries: SAARC
2. Understand Indian Problems such as Students unrest, Nav Nirman Andolan, Emergency and role of Jaiprakash Narayan, Terrorism in Punjab and Naxlas, Naxalism and Maoism.
3. Understand Movements in Post-Independence India such as Environmental movements, Women's movements, Manjushri Sarda Case and Bhavridevi Case, Movements of Depressed Classes, Namantar Chalval.
4. Understand the world Globalization in favour of Post-Independence Indian Liberalization and Privatization since 1992: Concept, Merit and Demerit.

Paper No. - XIII - History of the Marathas (1707-1818)

1. Understand Internal Warfare of Marathas.
2. Understand how the Maratha power had been transferred to Peshwas.
3. Understand the details regarding the expansion of Maratha power.
4. Understand how the Britisher's defeated to Maratha power.
5. Understand Socio-Economical and Cultural Situation in Peshava Period.

Paper No. - XIV - Modern Maharashtra (1960 to 2000)

1. Understand the Formation of Maharashtra state such as Linguistic reorganizations of states in Indian context, Associated(Samyukta) Maharashtra movement and the Roles of major political parties and personalities in it.
2. Understand the Maharashtra State Economy such as Agricultural (commercialization of Agricultural), Irrigation, Industry (Cooperative movement, MIDC) Trade (Import and Export etc.)
3. Understand the Social movements (with special reference to western Maharashtra)- Peasant and workers movement: Dam affected and landless people, Dalit movement, Progressive movements: Blind Faith Eradication Committee (Andh shradha Nirmulan samiti's work).
4. Understand Cultural Life in Maharashtra such as Arts (drama and films), Visual arts festival (painting and sculpture), and Marathi literature.

Paper No. - XV - Introduction to Historiography

1. Achieve applied and practical approach towards history.
2. Understand Meaning of History, Kinds of History and Auxiliary Sciences.
3. Understand the Process of History Writing such as Selection of Topic, Chapter scheme, Evaluation of Sources and Presentation
4. Understand how to acquire Primary Historical Sources such as Survey, Interview, questionnaire, Archives and Newspapers, Internet, Radio, T.V., Short films etc.
5. Understand the Process of History Writing such as Selection of Topic, Chapter scheme, Evaluation of Sources and Presentation.
6. Understand the Tools of Writing History- Notes Taking and End Notes, Index and bibliography and Dating.

Paper No. - XVI - Applications of History

1. Know the information of Museums: Definition and nature of Museum, Types of Museum with reference to Study of Chhatrapati Shivaji Maharaj Vastusangrahalaya Mumbai (Prince of Wales) as a case study.

2. Understand Historical Tourism: Concept and Nature, Importance of Tourism for History, with the Destinations such as Ajanta and Ellora Caves, Raigad and Devgiri (Daulatabad) Forts.
3. Understand Conservation and Preservation of rare Documents, Paintings and Monument.
4. Come to know how to make Careers in History: Tourism Industry, Museums and Archives, Importance of History for the preparation of Competitive Examinations.
5. Get practical knowledge of Visits to Historical places and Museums.

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DEPARTMENT OF ECONOMICS

COURSE OUTCOMES

PROGRAM OUTCOMES

2021-22

Course outcome

B.A. I CBCS PATTERN SEM – I

Sr. No	Subject	Course outcome
1	Indian Economy Paper I	1.To Introduce the student to the Indian economy. 2.To develop an understanding of challenges facing the Indian economy. 3.To acquaint the students with structure of the Indian economy and changes taking place therein.

Programme – B.A. I CBCS PATTERN SEM – II

Sr. No	Subject	Course outcome
1	Indian Economy Paper II	1.To acquaint the students with the policies and the performance of major sectors in Indian economy. 2.To explain the economic reforms introduced in Indian since 1991.

B.A.II CBCS PATTERN SEM – III

Sr. No	Subject	Course outcome
1	IDS Co-Operation Paper I	1.To study the meaning and principles of Co-operation. 2.To study the agricultural and Non-agricultural Credit Co-operative institutions. 3.To study the Co-operative credit system 4.To Study the important cooperative organizations
2	Macro Economics Paper III	1.The macro variables and components of macro economics. 2.Changing the value of money and its impacts on the economy.

		3.The output and employment generation process through investment and consumption.
3	Money & Banking Paper IV	1.Students will be able to use e-banking services. 2.Students will be able to explain working of RBI in india. 3.Students will be able to explain the business practices of NBFCs and AIFI.

B.A.II CBCS PATTERN SEM – IV

Sr. No	Subject	Course outcome
1	IDS Co-Operation Paper II	1.To study the cooperative legislations and fund management 2.To understand the institutional arrangement for cooperative education and training 3.To understand the nature, registration, legislation and audit of housing cooperatives 4.To understand the cooperative audit system and provisions
2	Macro Economics Paper V	1.Public finance system of state and its impact on economy. 2.The trade cyclical phenomenon in the economy. 3.The trade and business practices through international trade theories.
3	Money & Banking Paper VI	1.Students will be able to use e-banking services. 2.Students will be able to explain working of RBI in india. 3.Students will be able to explain the business practices of NBFCs and AIFI.

B.A.III CBCS PATTERN SEM – V

Sr. No	Subject	Course outcome
1	Principle Of Micro Economics Paper VII	1.Explain What economics is and explain why it is important. 2.Understand consumer decision making and consumer behavior. 3.Define the concept of utility and satisfaction. 4.Derive revenue and cost figures as well as curves. 5.Understand producer decision making and producer behavior.
2	Economics Of Development Paper VIII	1.Identify the dimension of development. 2.Distingush the fundamental and contemporary development debate. 3.Know the theories of economic development. 4.Realise the role of state in economic development.
3	International Economics Paper IX	1.Explain international trade. 2.understand the measurement of gains from international trade. 3.Distinguish different rates of exchange. 4.Measures the terms of trade.
4	Research Methodology In Economics Paper X	1.Get acquainted with the basic concept of research and its methodologies. 2.Select and define appropriate research problem and parameters.
5	History of Economics Thoughts Paper XI	1.Understand the basic economic ideas of various economics thinkers of the world. 2.Understand the development of economics thoughts.

B.A.III CBCS PATTERN SEM – VI

Sr. No	Subject	Course outcome
1	Principle Of Micro Economics Paper XII	1.Identify the market structure. 2.Analysis the economic behavior of individual firms and markets. 3.Anayse a firms profit Maximizing strategies under different market conditions. 4.undertand the factor pricing.
2	Economics Of Planning Paper XIII	1.Get acquainted with economic planning and its important in development. 2.Get acquainted with development of planning and planning machinery in India. 3.Evaluate sectoral performance of the Indian economy. 4.Compare and analyze Indian models of economic development.
3	International Economics Paper XIV	1.Distinguish between balance of trade and balance of payments. 2.Analyse the balance of payments. 3.Understand the various types of foreign capital. 4.Analyse the impact of international institutions of Indian economy.
4	Research Methodology In Economics Paper XV	1.Understand the sampling techniques as a method of data collection. 2.Use techniques and data analysis in research. 3. write a research report and thesis. 4.Write a research proposal.
5	History of Economics Thoughts Paper XVI	1.understand the economic concept and theories of non-classical and Indian thinkers. 2.Understand the development of economic thoughts.

B.COM I CBCS PATTERN SEM – I

Sr. No	Subject	Course Outcome
1	Micro economics : paper I	The student should be able to apply tools of consumer behaviour and firm theory of business situation.

Programme – B.COM I CBCS PATTERN SEM – II

Sr. No	subject	Course Outcome
1	Micro economics : paper II	The student should be able to apply tools of consumer behaviour and firm theory of business situation.

B.COM- II CBCS PATTERN SEM – III

Sr. No	Subject	Course outcome
1	Money and financial system : paper I	10. Students will be able to use e-banking services. 11. Students will be able to explain working of RBI in india. 12. Students will be able to explain the business practices of NBFCs and AIFI.
2	Macro Economics : paper I	10. The macro variables and components of macro economics. 11. Changing the value of money and its impacts on the economy. 12. The output and employment generation process through investment and consumption.

B.COM- II CBCS PATTERN SEM – IV

Sr. No	Subject	Course outcome
3	Money and financial system : paper II	10. Students will be able to use e-banking services. 11. Students will be able to explain working of RBI in india. 12. Students will be able to explain the business practices of NBFCs and AIFI.
4	Macro Economics : paper II	10. Public finance system of state and its impact on economy. 11. The trade cyclical phenomenon in the economy. 12. The trade and business practices through international trade theories.

B.COM- III CBCS PATTERN SEM – V

Sr. No	Subject	Course outcome
2	Co-operative development: paper I	1.To study the meaning and principles of Co-operation. 2.To study the agricultural and Non-agricultural Credit Co-operative institutions. 3.To study the Co-operative credit system 4.To Study the important cooperative organizations
3	Business environment :paper I	1.Student should able to understand the significance and position of Indian economy at the world level. 2 Students should study the scenario of agricultural and industrial sectors. 2.Student should aware regarding Indian economy is facing some of the fundamental economic problems. They should able to make plans and solutions to these being as a citizen. 3.Student should understand the correlations between economical and social problems.

B.COM- III CBCS PATTERN SEM – VI

Sr. No	Subject	Course outcome
2	Co-operative development: paper II	1.To study the cooperative legislations and fund management 2.To understand the institutional arrangement for cooperative education and training 3.To understand the nature, registration, legislation and audit of housing cooperatives 4.To understand the cooperative audit system and provisions
3	Business environment :paper II	10. Students will understand the Indian and global economic environment. 11. Students will equip with proper knowledge of Indian economic planning. 12. Students will enable with the knowledge of the plans and strategies toward foreign capital and multinational corporations. Students will get acquainted with the functions, mechanism and performance of international financial, trade and regional cooperation institutions.

Subject Teacher

Head Of The Department

Principal

I/c. Principal
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Kadegaon,Dist. Sangli

B.V.M.B.S.K. Kanya Mahavidyalaya KADEGAON

Programme Outcomes

After successfully complete of this course following benefits are:

28)Student will be able to explain what economics is and their important

29)Students understand Consumer decision making and behaviour.

30)Students will be identifying economic behaviour of firm and market.

31)Students will be able to use e-banking service.

32)Students will be able to explain the business practices of NBFCs and AIFI.

33)Student should able to understand the significance and position of Indian economy at the world level.

34)Students should study the scenario of agricultural and industrial sectors.

35)Student will be able to understand Indian economy is facing some of the fundamental economic problems.

36)They should able to make plans and solutions to these being as a citizen

10) Student will able to understand cooperative Movement.

Students will understand about research its methodology.

14) Students will about Indian Planning its scenario

Head of the Department

Principal

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B.S.K. Kanya Mahavidyalaya KADEGAON

Bharati Vidyapeeth's

Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon

Department of Geography

Course Objectives

And

Course Outcomes

(Year- 2021-2022)

Bharati Vidyapeeth

Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya Kadegaon

DEPARTMENT OF GEOGRAPHY

PROGRAMME OUTCOMES

BACHELOR OF ARTS (B. A.)

After completion of the B. A. Programme, the students will develop ability:

- Understand knowledge in the field of humanities.
- Cultured and good citizen of India.
- Get employment.
- Understand fundamental values of Indian Constitution.
- Use communication and soft skills.
- Socially conscious.
- All round personality development of the learners.

DEPARTMENT OF GEOGRAPHY
COURSE OUTCOMES

B. A. I:
SEMESTER-I:
Paper I– Physical Geography (DSE- I)

After completion of this Course, the students will develop ability:

1. Acquaint with physical geography with reference to nature, importance and role climate of earth.
2. Acquire geographical values through interior of the earth, atmosphere in human beings life.
3. Apply geographical competence in practical usage.

B. A. I:
SEMESTER – II:
Paper II – Human Geography (DSE- II)

1. Acquaint with different terms and definitions used in Human Geography.
2. Acquire the skill of maintaining environmental balance with reference to Human Geography.
3. Apply various issues related to population, agriculture and settlement.

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B. A. II:

SEMESTER – III:

Paper III - Soil Geography (DSC- D19)

1. By the end of the course, students will be able to demonstrate knowledge of the definition, nature, and scope of Soil Geography, as well as its history and pedology
2. Students will be able to comprehend the Jenny's Factorial Model of Soil Formation and the process of soil formation
3. Student will start up soil test laboratory.
4. Students will be evaluated on their practical skills related to soil profile, soil sample tools, soil analysis.

B. A. II:

SEMESTER – III:

Paper IV – Resource Geography (DSC- D20)

1. By the end of the course, students will be able to demonstrate knowledge of the definition, nature, and scope of Resource Geography.
2. Students will be able to the classify of resources based on their characteristics and their worldwide distribution.
3. Students will be able to understand for the need of sustainable resource development and skills of resource management
4. Students will be evaluated based on their ability to apply their knowledge of problems of resource availability, its management and sustainable resource development in practical scenarios

B. A. II:

SEMESTER – IV:

Paper V –Oceanography (DSC-D 47)

1. Students will define the nature and scope of oceanography and its connection to physical sciences.
2. Students will apply knowledge of causes, effects of ocean pollution and propose solutions
3. Enhance problem-solving abilities by applying oceanographic principles to real-world situations and to demonstrate the ocean currents
4. Assess the development of critical thinking and problem-solving skills through case studies.

B. A. II:

SEMESTER – IV:

Paper VI –Agricultural Geography (DSC- D48)

1. After the completion of course, students will be familiar with physical setup of the Maharashtra as well as its resources.
2. The students will be realized the location, physiography, climate, drainage, soils, vegetation, mineral resources of Maharashtra.
3. The students will be able to represent resource distribution and its ecological and environmental relations
4. The students will be evaluated on their regularity, punctuality, practical skills related to resource conservation and approaches towards resource management

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DEPARTMENT OF SOCIOLOGY

(B. A. Part I – 2021-22)

Course Objectives

and

Programme Outcomes

B.A. Part I - Semester I - Sociology Course - 1

Paper I – Introduction to Sociology (DSC – B2)

Choice Based Credit System (CBCS) - (w.e.f. June 2018)

Course Objectives:

1. This Course introduces students to Introduction to Sociology.
2. To understand sociological concepts to the students and terms to the process of everyday life.
3. To create social understanding among the students.

Programme Outcomes:

After the completion of the course, the students will be able to:

1. Know the subject of Sociology and subject matter of Sociology.
2. Understand the basic concepts of Sociology.
3. Understand the human society and the importance of culture & social institutions in our day-to-day life.
4. Know the stages & agencies of Socialization.

B. A. Part I

B.A. Part I - Semester II - Sociology Course - 2

Paper II – Applied Sociology (DSC – B16)

Choice Based Credit System (CBCS) (w.e.f. June 2018)

Course Objectives:

1. To understand the applications of Sociology.
2. To know the social change in modern society.
3. To understand how Sociology as a profession.

Programme Outcomes:

1. Explain the theoretical approaches in Sociology
2. Understand impact of mass media.
3. Understand the social change and social movements.
4. Know the career opportunities.

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DEPARTMENT OF SOCIOLOGY

(B. A. Part II – 2021-22)

Course Objectives

and

Programme Outcomes

B.A. Part II - Semester III - Sociology Course - 3

Paper III – Social Issues in India (DSC – D3)

Choice Based Credit System (CBCS) - (w.e.f. June 2019)

Course Objectives:

1. Introduces students to Sociological study of Social Issues.
2. To draw attention of the students for to need to study 'Socio-Cultural, Economic,' and legal issues in India.
3. To know recent social problems.

Programme Outcomes:

1. Understand the social issues and social problems.
2. Know the communalism.
3. Know the poverty and unemployment as asocial problem.
4. Understand the human rights.
5. Understand recent issues that is Female-Foeticide and Cyber Crime.

B.A. Part II - Semester III - Sociology Course - 4

Paper IV – Social Movement in India (DSC – D4)

Choice Based Credit System (CBCS) - (w.e.f. June 2019)

Course Objectives:

1. To draw attention to the variety of ideas and debates about India.
2. To know the importance of social movement.
3. To understand the functions of some social movements.

Programme Outcomes:

1. Understand importance of social movements.
2. Know the problems of farmers and also Dalit and Tribal Society.
3. Know the different peasant movements.
4. Understand the impact of Dalit and Tribal Movements.

B.A. Part II - Semester IV - Sociology Course - 5

Paper V – Gender and Violence (DSC – D31)

Choice Based Credit System (CBCS) - (w.e.f. June 2019)

Course Objectives:

1. To understand concept of Gender violence.
2. To understand violence against women.
3. To know awareness about gender issues.

Programme Outcomes:

1. Understand the nature of Gender and Gender Violence
2. Explain the Domestic Violence
3. Know the nature of violence against tribal, rural, & urban women
4. Know Women's Harassment at workplace and to understand Vishakha Guidelines Act,2013

B. A. Part II

B.A. Part II - Semester IV - Sociology Course - 6

Paper VI – Sociology of Health (DSC – D32)

Choice Based Credit System (CBCS) - (w.e.f. June 2019)

Course Objectives:

1. The course introduces students to the sociology of health, illness and medical practice by highlighting the significance of socio-cultural dimensions in the construction of illness and medical knowledge.
2. Theoretical perspectives examine the dynamics shaping these constructions. Negotiations of health and illness are explored through ethnographies.

Programme Outcomes:

After the completion of the course, the students will be able to:

1. Understand the nature of Sociology of Health and importance of Sociology of Health.
2. Understand the major diseases – Diabetes, Heart Disease and Cancer.
3. Understand the traditional & modern lifestyle for good health.
4. Understand the Health Policies for children, women, old age and people of Below Poverty Line.

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B. A. Part II

B.A. Part II - Semester III - IDS

Paper I – History of Social Reforms in India (DSC – D4)

Choice Based Credit System (CBCS) - (w.e.f. June 2019)

Course Objectives:

1. To introduce the students to the social and religious change in India expressed in various social reform movements.
2. Students will explore the significance and impact of prominent social and reform movements.
3. To understand how the ideals of rationalism, humanism and universalism were encouraged by the Indian social reformers.

Programme Outcomes:

After the completion of the course, the students will be able to:

1. Understand the salient features of prominent socio-religious reform movements
2. Explain the thought and work of Mahatma Phule for radical transformation of Indian society
3. Know the measures taken by Rajashri Shah Maharaj for emancipation of lower classes and women
4. Understand the thoughts of Ambedkar on the annihilation of the caste system and untouchability in India
5. Know how the Indian constitution embodies the values of social justice and equality

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B. A. Part II

B.A. Part II - Semester IV - IDS

Paper II – History of Social Reforms in Maharashtra (DSC – D4)

Choice Based Credit System (CBCS) - (w.e.f. June 2019)

Course Objectives:

1. To know social condition in early 19th century
2. Eventually some reform-oriented people started movements to reform the society. To study social and educational work of some women reformers.
3. This course introduces the students to the contribution of social and educational reformers in Maharashtra.

Programme Outcomes:

After the completion of the course, the students will be able to:

1. Know about the beginnings of social reforms in Maharashtra by the Paramhansa Mandali and Prarthana Samaj.
2. Understand the contribution of women reformers
3. Explain the contribution of social reformers in the fight for social justice
4. Explain the role played by educational reforms in transformation of society.

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DEPARTMENT OF COMMERCE

2021-22

COURSE OUTCOMES

PROGRAM OUTCOMES

PROGRAM SPECIFIC OUTCOMES

I) Programme Outcomes-

B.COM I CBCS PATTERN SEM – I

Sr. No	Subject	Course Outcome
1	Management principles and applications : paper –I	1) To provide the student with an understanding of basic management concepts, principles and practices. 2) To provide the students with detailed understanding of basic management functions.
2	Principle of marketing : paper I	1) The objective of this course is to provide basic knowledge of concepts, principles of marketing. 2) The objective of this course is also provide knowledge of techniques of marketing
3	Financial Accounting: paper I	1) To understand the basics of the accounting process and accounting standards. 2) To understand the accounting process in amalgamation of partnership firms. 3) To understand accounting of consignment business. 4) To understand accounting of professionals.
4	Insurance : paper I	1) The objective of this course is to provide basic knowledge of principles and practice of insurance and 2) To understand the life insurance policies and procedure.

B.COM I CBCS PATTERN SEM – II

Sr. No	subject	Course Outcome
1	Management principles and applications : paper –II	1) To provide the student with an understanding of basic management concepts, principles and practices. 2) To provide the students with detailed understanding of basic management functions.
2	Principle of marketing : paper II	1) The objective of this course is to provide basic knowledge of 4P's of marketing. 2) To understand the concept of retailing.
3	Financial Accounting: paper II	1) To understand conversion of single entry to double entry accounting. 2) To understand accounting in case of conversion of partnership firm into a limited company. 3) To understand branch accounting and branch accounting methods. 4) Introduce students to computerised accounting system.
4	Insurance: paper –II	The objective of this course is to enable students to know the fundamentals of general insurance.

B.COM- II CBCS PATTERN SEM – III

Sr. No	Subject	Course outcome
1	Corporate accounting : paper I	1) Explain the accounting entries of issue and forfeiture of shares and re- issued of forfeited shares, 2) To study accounting for redemption of preference shares. 3) Demonstrate accounting for issue of debentures and redemption of debentures. 4) Simulate practice of preparing financial statements as per the provisions of indian companies Act 2013. 5) Practice of fundamentals accounting process on Tally ERP.
2	Fundamentals of entrepreneurship : paper I	1) To impart theoretical knowledge of Entrepreneurship. 2) To develop entrepreneurship qualities and skills. 3) To acquaint students with steps involved in the formation of small enterprises.
3	Business statistics : paper I	1) Explain the scope and statistics in business. 2) Explain and apply sampling techniques in real life. 3) Summarize data by means of measures of central tendency and dispersion.

B.COM- II CBCS PATTERN SEM – IV

Sr. No	Subject	Course outcome
1	Corporate accounting : paper II	1) Explain the accounting entries of profit/loss prior to incorporation. 2) Compute the value of shares as per the various methods. 3) Simulate practice of accounting for liquidation of companies. 4) Practice the store accounting through Tally ERP.
2	Fundamentals of entrepreneurship : paper II	1) To acquaint students with family business in India, 2) To impart conceptual knowledge of agro entrepreneurship. 3) To inform students about business plan and project report.
3	Business statistics : paper II	1) Compute unconditional and conditional probabilities. 2) Identify the application of binomial and normal distributions. 3) Compute and interpret simple and weighted index number.

B.COM- III CBCS PATTERN SEM – V

Sr. No	Subject	Course outcome
1	Business regulatory framework: paper I	1) To create legal awareness among the students. 2) To acquaint the students with the latest laws governing business and commercial transactions.
2	Modern management practices :paper I	1) To impart knowledge of modern management 2) To understand concepts of CRM 3) To know the concepts of emotional and social intelligence 4) To understand the concept of lean and talent management
3	Advanced accountancy: paper I	1) Practice the preparation of financial statements of banks. 2) Demonstrate accounting for farms and hire purchase system. 3) Simulate accounting situations of insurance claim. 4) Explain the accounting process on Tally with GST.
4	Advanced accountancy: paper II	1) To understand the concept and types of audit 2) To identify the residential status and its implication on tax liability 3) To understand the concept of exemption from income 4) To know the computation of income from various sources as well as total income

B.COM- III CBCS PATTERN SEM – VI

Sr. No	Subject	Course outcome
1	Business regulatory framework: paper II	1) To create legal awareness among the students. 2) To acquaint the students with the latest laws governing business and commercial transactions.
2	Modern management practices :paper II	1) To impart knowledge of total quality management. 2) To understand the Japanese and Chinese Management Practices. 3) To know the concept of Event and Performance Management 4) To understand the concept of time and stress management.
3	Advanced accountancy: paper III	1) Practice the preparation of financial statements of banks. 2) Demonstrate accounting for farms and hire purchase system. 3) Simulate accounting situations of insurance claim. 4) Explain the accounting process on Tally with GST.

4	Advanced accountancy: paper IV	1) To understand the basic concepts of income tax and basis of charge 2) To identify the residential status and its implication on tax liability 3) To understand the manner of computation of total income 4) To know the basic concepts about GST

II) Programme outcomes-

1) After completing B. Com program, students would gain a detailed knowledge about Accounting, entrepreneurship, marketing and management.

2) Identify the business management skills and inculcate the ability to apply these skills.

3) The students would find a suitable job in the area of accounting, marketing and general administration.

III) Programme Specific Outcomes-

1) Programme facilitates the theoretical as well as practical knowledge about the different aspects of the business perspectives which prepare them to work in various entities.

1) After completion of programme students will be apply Knowledge and skills in accounting principles and practices.

2) Familiarize the students with decision making in planning, organising, control and coordination in any business organisation.

3) Programme intends to make the students able to set up own business ventures and promote entrepreneurship.

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"Social Transformation Through Dynamic Education"

Bharati Vidyapeeth's
Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya,
Kadegaon, Dist. Sangli.

Department of Chemistry

2021-22

COURSE OUTCOMES

PROGRAM OUTCOMES

PROGRAM SPECIFIC OUTCOMES

"Social Transformation Through Dynamic Education"

Bharati Vidyapeeth's
Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon, Dist. Sangli.

Department of Chemistry

Academic Year 2021-22

PART – A

Name of Department: Department of Chemistry

Vision: To Develop a globally competent attitude among students for Nation Building.

Mission:

1. To impart the scientific knowledge and training to the students.
2. To prepare Skillful students for the advancement of science and technology.
3. To cater the needs of industrial and pharmaceutical companies.
4. To prepare the students for competitive examination in chemistry.

Name of Program: B.Sc. Chemistry

The B.Sc. Chemistry program offered by Shivaji University is a Three Years full time program. In order to make students aware about their career in one of the versatile branch of science and their scientific temperaments, students will get exposure to the depth of core understanding of various aspects of chemistry during these three-year study.

PROGRAM OUTCOME (B.Sc. Chemistry)

PO1. Students will be able to understand the fundamental chemistry concepts.
PO2. Students will be able to solve various problems by identifying the essential parts of a problem with formulating the strategy.
PO3. Students will be able to acquire specific knowledge and technical skills needed for employment in industries, teaching fields and choice of subject for higher education.
PO4. Students will be able to apply the fundamental knowledge to address the crosscutting issues such as Environmental issue for sustainable development.
PO5. Students will be able to communicate effectively with the knowledge of critical thinking and problem solving approach i. e. being able to comprehend and write effective reports, make effective presentations and documentation.
PO6. Student will able to understand the principles, electrochemical properties, physico-chemical and structural analysis with kinetic and thermodynamic properties of material.

B.S.K. Kanya Mahavidyalaya KADEGAON

Program Specific Outcomes (B. Sc. Chemistry)

PSO 1. Students will be able to qualify competitive examinations like NET, SET, GATE, BARC, TIFR etc.
PSO 2. Students will have opportunities to serve in different Chemical, Pharmaceutical, petrochemicals, metallurgical as well as food and agrochemical industries.
PSO 3. Students will have opportunities in M.Sc. Chemistry programme at university level.
PSO 4. Collaborate effectively on team-oriented projects in the field of Chemistry or other related fields.
PSO 5. Students can start their own chemical industry / business (entrepreneurship).
PSO 6. Students will be able to interprete NMR, MS, IR for structural elucidation.
PSO 7. Gain complete knowledge about all fundamental knowledge of all the elements of periodic table.
PSO 8. Understand the background of inorganic reaction mechanism, separation techniques and analytical methods.
PSO 9. Understand the knowledge of thermodynamic properties of material, different order of reaction in chemical kinetics, electrochemistry, solution properties, CST, physical properties of liquids and nuclear chemistry.

Part B

Syllabus Structure: Annexure – I

Semester-wise courses, their COs and Mapping Matrices

1. **B.Sc. I Semester I DSC-3A- Chemistry paper I (Inorganic Chemistry)**
2. **B.Sc. I Semester I DSC-4A- Chemistry paper II (Organic Chemistry)**
3. **B.Sc. I Semester II DSC 3B: Chemistry Paper-III (Physical Chemistry)**
4. **B.Sc. I Semester II DSC-4B-Chemistry Paper IV (Analytical Chemistry)**

Course Outcomes

B.Sc. Part-I, Sem-I DSC-3A- Chemistry paper I (Inorganic Chemistry)

CO 1. After successful completion of the course,Student will able to understand Principles, complete atomic structure and periodic table of elements.
CO 2. After successful completion of the course,Student will able to understand ionic bonding and molecular structure of different inorganic compounds.
CO 3. After successful completion of the course,Student will able to understand the concept of hybridization, valence bond theory and geometry of different inorganic compounds.
CO 4. After successful completion of the course,Student will able to understand the concept of Bonding and antibonding molecular orbitals, molecular orbital theory and bond order determination of inorganic compounds.

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DSC-4A- Chemistry paper II (Organic Chemistry)

CO 1. After successful completion of the course,Student will be able to understand the fundamental knowledge of Bond fission, electronic displacement of molecular species, reactive intermediates and their stability.

CO 2. After successful completion of the course,Student will able to understand the types of stereoisomers, element of symmetry and nomenclature of stereoisomers.

CO 3. After successful completion of the course,Student will able to understand characteristic properties of organic compounds, aromaticity concept and mechanism of electrophilic substitution reaction.

CO 4. After successful completion of the course,Student will able to understand the properties and preparation methods of cycloalkanes, cycloalkenes and alkadienes.

SEM-II-DSC 3B: Chemistry Paper-III (Physical Chemistry)

CO 1. After successful completion of the course,Student will be able to understand the basic concept of thermodynamics, laws of thermodynamics, Carnot cycle and its efficiency, thermochemistry and Kirchhoff's equation.

CO 2. After successful completion of the course,Student will able to understand chemical equilibrium and its thermodynamic derivation. Distinction between ΔG and ΔG^{o}, Le Chatelier's principle. Relationships between Kp, Kc and Kx for reactions involving ideal gases. .

CO 3. After successful completion of the course,Student will able to understand Kinetic Theory of Gases and derivations.Van der Waals equation of state for real gases, Critical Phenomena, Most probable, average and root mean square velocities.

CO 4. After successful completion of the course,Student will able to understand detail study of Rate of reaction, factors affecting, order and molecularity of reaction. Characteristics of first and second order reaction, determination of order of reaction, Arrhenius equation and Theories of Reaction Rates.

DSC-4B-Chemistry Paper IV (Analytical Chemistry)

CO 1. After successful completion of the course,Student will be able to understand the Analytical process, methods of analysis, sampling, Errors and types of errors, significant figure, mean, median and deviation.

CO 2. After successful completion of the course,Student will able to understand Basic Principle and Classificationof Chromatography, determination of Rf value, Applications, advantages and disadvantages. Comparison of paper chromatography and TLC .

CO 3. After successful completion of the course,Student will able to understand Acid-base indicators, Theory of indicators w.r.t. Ostwald's ionization theory and quinoid theory Neutralization curves and choice of indicators, Complexometric titrations.

CO 4. After successful completion of the course,Student will able to understand Physical analysis of water, COD,BOD,Types of fertilizers,Analysis of Nitrogen by Kjeldahl's method Analysis of Phosphorus by phosphomolybdate method Analysis of Potassium by sodium tetraphenyl borate method.

B.Sc. I Semester I and II Practical Course (Physical+Inorganic+Organic)

CO 1. After successful completion of the course,Student will be able to understand preparation and standardization of solutions, acid base titrations, iodometric titrations using different indicators and determination of percentage purity.

CO 2. After successful completion of the course,Student will able to understand separation and identification of paper chromatography from different mixtures, estimation of aniline, aspirin and acetamide.

CO 3. After successful completion of the course,Student will able to understand complete organic qualitative analysis process.

CO 4. After successful completion of the course,Student will able to understand purification of organic compound by crystallization and distillation. Heat capacity, heat of ionization, determination of equivalent weight, reaction rate, enthalpy of solution and solubility of benzoic acid.

Syllabus Structure: Annexure – II

Semester-wise courses, their COs and Mapping Matrices

1. **B.Sc. Part II (CBCS) Sem III DSC- C3 - Chemistry paper No. V (Physical Chemistry)**
2. **B.Sc. Part II (CBCS) Sem IIIDSC-C4- Chemistry paper No. VI (Industrial Chemistry)**
3. **B.Sc. Part II (CBCS) Sem IV DSC-D3- Chemistry paper No. VII (Inorganic Chemistry)**
4. **B.Sc. Part II (CBCS) Sem IV DSC- D4 - Chemistry paper No. VIII (Organic Chemistry)**

B.Sc.Part II (CBCS) Sem III

Paper No. DSC- C3 - Chemistry paper No. V (Physical Chemistry)

CO 1. After successful completion of the course,Student will be able to understand Learning and understanding conductivity and transport number of the aqueous solutions with different applications.
CO 2. After successful completion of the course,Student will able to understand Knowledge about surface tension, viscosity and refractive index.Learning and understanding surface phenomena at heterogeneous surfaces.
CO 3. After successful completion of the course,Student will able to understand Learning the various nuclear phenomena and measurement of nuclear radiations
CO 4. After successful completion of the course,Student will able to understand Learning and understanding the knowledge about third order reaction and theories of reaction rates.

Paper No. DSC-C4- Chemistry paper No. VI (Industrial Chemistry)

CO 1. After successful completion of the course,Student will be able to understand Learning and Understanding basic concepts and concentration terms.Distinguish between classical and industrial chemistry, unit operations and unit processes.
CO 2. After successful completion of the course,Student will able to understand Knowledge of some unit operations,Understanding the process of corrosion and Knowledge of prevention from corrosion.
CO 3. After successful completion of the course,Student will able to understand Knowledge of Indian paper industry.
CO 4. After successful completion of the course,Student will able to understand Knowledge about the chemical nature and cleansing action of soap.

B.Sc. Part II (CBCS) Sem IV

Paper No. DSC-D3- Chemistry paper No. VII (Inorganic Chemistry)

CO 1. After successful completion of the course,Student will be able to understand Learning and Understanding basic concepts about coordination complexes.
CO 2. After successful completion of the course,Student will able to understand Knowledge about application of chelates in analytical chemistry.

CO 3. After successful completion of the course,Student will able to understand the properties of P – block elements.Student will be capable of understanding the properties of 3d series elements.

CO 4. After successful completion of the course,Student will able to understand the basic knowledge about the qualitative analysis of inorganic compounds.

DSC- D4 - Chemistry paper No. VIII (Organic Chemistry)

CO 1. After successful completion of the course,Student will be able to understand knowledge about the synthesis, reactivity and applications of carboxylic acids.

CO 2. After successful completion of the course,Student will able to understand Knowledge about classification, preparation and applications of amines and diazonium salts. Understanding the classification, configuration and structure of carbohydrates

CO 3. After successful completion of the course, Student will be capable of understanding the nomenclature and reactivity of aldehydes and ketones.

CO 4. After successful completion of the course,Student will able to understand the basic knowledge conformational analysis of organic compounds.

B. Sc II Practical Course Total Marks- 100 (I-35+O-30+P-25+J-10)

CO 1. After successful completion of the course,Student will be able to understand Gravimetric Analysis, titrimetric analysis Inorganic preparation and semi-micro qualitative analysis.

CO 2. After successful completion of the course,Student will able to understand organic Qualitative Analysis, organic estimations, Organic preparations and TLC.

CO 3. After successful completion of the course, Student will able to understand chemical kinetics experiments with equal and unequal concentration, instrumental and non-instrumental experiments.

CO 4. After successful completion of the course,Student will able to understandthe principal of Thin Layer Chromatography and its applications.

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B.Sc.Part III (CBCS)

Syllabus Structure: Annexure – III

Semester-wise courses, their COs and Mapping Matrices

Semester V : Papers IX-DSE-E5, X-DSE-E6, XI- DSE-E7, XII- DSE-E8,
Semester VI: Papers XIII- DSE-F5, XIV-DSE-F6, XV-DSE-F7 and XVI- DSE-F8

Paper – IX DSE-E5 & XIII DSE-F5: Inorganic Chemistry
Paper – X DSE-E6 & XIV DSE-F6: Organic Chemistry
Paper – XI DSE-E7 & XV DSE-F7: Physical Chemistry
Paper – XII DSE-E8 &XVI DSE-F8: Analytical and Industrial Chemistry

Paper – IX DSE-E5 & XIII DSE-F5: Inorganic Chemistry

CO 1. After successful completion of the course,Student will be able to understand the study of role of acids and bases in Chemistry. The study of non –aqueous solvents is important to learn all chemical properties of solutes and from the research point of view.
CO 2. After successful completion of the course,Student will able to understand the geometry, stability and nature of bonding between metal ion and ligand in complexes.Synthesis and the applications of the semiconductors and Superconductors in electrical and electronic devices.
CO 3. After successful completion of the course, Student will be capable of the structure, method of preparation and the applications of organo metallic compound in various fields.
CO 4. After successful completion of the course,Student will able to understandthe classification, types, mechanism and applications of catalyst in industrial fields.

Paper – X DSE-E6 & XIV DSE-F6: Organic Chemistry-

CO 1. After successful completion of the course,Student will be able to understand the energy associated with electromagnetic radiation and its use in analytical technique.
CO 2. After successful completion of the course,Student will able to understandKnowledge of chromophore, auxochrome and calculation of λ_{max}. Knowledge of vibrational transitions, regions of IR spectrum, functional group recognition.
CO 3. After successful completion of the course, Student will be capable Understanding of magnetic-nonmagnetic nuclei, shielding-deshielding, chemical shift, splitting pattern.Knowledge of molecular ion, fragmentation pattern and different types of ions produced.
CO 4. After successful completion of the course,Student will able to predict the structure of organic compound with the help of provided spectral data.

Paper – XI DSE-E7 & XV DSE-F7: Physical Chemistry

CO 1. After successful completion of the course,Student will be able toLearning and understanding quantum Chemistry, Heisenberg's uncertainty principle, concept of energy operators (Hamiltonian), learning of Schrodinger wave equation. Physical interpretation of the ψ and ψ^2. Particle in a one-dimensional box.
CO 2. After successful completion of the course,Student will able to understandthe Knowledge about spectroscopy, Electromagnetic spectrum, Energy level diagram, Study of rotational spectra of diatomic molecules: Rigid rotor model, Microwave oven, vibrational spectra of diatomic molecules, simple Harmonic oscillator model, Raman

spectra: Concept of polarizability, pure rotational and pure Vibrational Raman spectra of diatomic molecules, related knowledge will be gained by the students.

CO 3. After successful completion of the course, Student will be capable Learning and understanding photochemical laws, reactions and various photochemical phenomena.Learning the various types of solutions, relations vapour pressure, temperature relations.

CO 4. After successful completion of the course,Student will able toLearning and understanding the knowledge of emf measurements, types of electrodes, different types of cells, various applications of emf measurements.

Paper No. DSE-E8 Chemistry paper No. XII (Analytical Chemistry)

CO 1. After successful completion of the course,Student will be able to understand Learning and understanding the techniques of gravimetric analysis.

CO 2. After successful completion of the course,Student will able to understandKnowledge of instrumental analysis of alkali and alkaline earth elements. Understanding, working and applications of optical methods as an analytical tool.

CO 3. After successful completion of the course, Student will be capable of Understanding theory and applications of potentiometric titrations.

CO 4. After successful completion of the course,Student will able to understand the basics of ion exchange and column adsorption chromatography, Quality control practices in analytical industries / laboratories.

B.Sc. Part III (CBCS) SEMESTER -VI

Paper No. DSE-F5, Chemistry Paper No. –XIII (Inorganic Chemistry)

CO 1. After successful completion of the course,Student will be able to understand the topic focused on the mechanism of the reactions involved in inorganic complexes of transition metals. The students can understand the thermodynamic and kinetic aspects of metal complexes.

CO 2. After successful completion of the course,Student will able to understandthe generation of nuclear power with the help of nuclear reactions is highlighted. Role of radioisotopes in medicinal, industrial and Archaeology fields.

CO 3. After successful completion of the course, Student will able to understand the characteristics, properties and separation of lanthanides and Actinides are discussed. Synthesis and IUPAC Nomenclature of Trans uranic elements (TU).

CO 4. After successful completion of the course,Student will able to understandThe techniques involve in ore dressing and extraction of cast iron from its ore are discussed.Role of various metals and non-metals in our health.

Paper No. DSE-F6 Chemistry Paper No.XIV (Organic Chemistry)

CO 1. After successful completion of the course,Student will be able to understand the Knowledge of reagents used in organic transformations and various reactions used in organic synthesis.Knowing basic terms used in retrosynthetic analysis, retrosynthesis of some organic compounds.

CO 2. After successful completion of the courseStudent will learn addition reaction across >C=C< bond w.r.t. hydro halogenation, hydration hydroxylation, ozonolysis and addition of halogen, halogen acid, hydrogen, water, etc. across −C≡C−bond.

CO 3. After successful completion of the course, Student will able to gain Knowledge of terpenoids and alkaloids w.r.t. occurrence, isolation, characteristics and classification. Analytical and synthetic evidences of Citral and Nicotine.

CO 4. After successful completion of the course,Student will able to understand classification of drugs, Qualities of ideal drug. Synthesis and uses of some representative drugs and Drug action of sulpha drugs.

Paper No. DSE-F 7 Chemistry Paper No. XV (Physical Chemistry)

CO 1. After successful completion of the course,Student will be able toLearning and understanding of phase rule, learning of one component, two component and three component systems phase diagrams with suitable examples. Knowledge about basic concept of Thermodynamics, free energy, Gibbs-Helmholtz equation and its applications, problem related with it.

CO 2. After successful completion of the course,Student will able toLearning and understanding Space lattice, lattice sites, Lattice planes, Unit cell. Laws of crystallography, Weiss indices and Miller indices, Cubic lattices and types of cubic lattice, planes or faces of a simple cubic system, Diffraction of X-rays, Derivation of Bragg's equation. Determination of crystal structure by Bragg's method. Crystal structure of NaCl and KCl based on Bragg's equation.

CO 3. After successful completion of the course, Student will able to understand the Learning of kinetics, Simultaneous reactions such as i)opposing reaction ii)side reaction iii)consecutive reactions: iv) chain reaction v) explosive reaction.

CO 4. After successful completion of the course,Student will able toLearning and understanding the knowledge of distribution law, its modifications, applications of distribution laws, process of extraction, determination of solubility, distribution indicators, molecular weights.

Paper No. DSE-F8 Chemistry Paper No. XVI (Industrial Chemistry)

CO 1. After successful completion of the course,Student will be able to Learning and understanding the whole process of manufacture of sugar and byproducts of sugar industry.

CO 2. After successful completion of the courseStudent, will able to Learning and understanding of physicochemical principles of production of ammonia, sulfuric acid, nitric acid and sodium carbonate along with its manufacturing plant

CO 3. After successful completion of the course, Student will able to Understanding and learning the classification, synthesis and applications of various polymers. Understanding the petroleum Industry, fuels and need of use of ecofriendly fuels.

CO 4. After successful completion of the course,Student will able toUnderstanding and learning of nanotechnology including classification, optical properties, synthesis routes, characterization techniques and applications of nano-materials.

Laboratory Course (Practical's) (Phy- 60+Inorg- 65+Org- 60)

CO 1. After successful completion of the course,Student will be able to understand Gravimetric Analysis, titrimetric analysis Inorganic preparation and semi-micro qualitative analysis.

CO 2. After successful completion of the course,Student will able to understand organic Qualitative Analysis, Separation and identification of binary mixtures, organic estimations, Organic preparations, Derivative Preparation and TLC.

CO 3. After successful completion of the course, Student will able to understand chemical kinetics experiments with equal and unequal concentration, instrumental and non-instrumental experiments.

CO 4. After successful completion of the course,Student will able to understandthe principal of Thin Layer Chromatography and its applications.

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Bharati Vidyapeeth's

Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya
Kadegaon
DEPARTMENT OF PHYSICS
(2021-2022)

PROGRAM OUTCOMES (POs)

PROGRAM NAME: B.Sc. (PHYSICS)

PO1: Identifying and describing physical systems with their professional knowledge.

PO2: Developing their scientific attitude, ability and techniques to tackle problems either theoretical or an experimental in nature.

PO3: Knowledge of General Physics like Sound Wave, Friction, Force and Laws of motion and use of Mathematics.

PO4: Acquire knowledge of an Electrical current, Circuits, Construction and their use.

PO5: Learning about concept of Atomic Physics, Molecular Physics, Nuclear Physics and Nuclear energies as well as importance for their use for mankind.

PO6: Knowing about the Nature of light and different phenomenon, and use of various Optical Instruments in life.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Students will have fundamental and advanced level knowledge of Mathematics, with their applications for solving problems in Quantum Mechanics, Classical Mechanics, Astrophysics, Cosmology, Solid State Physics, Fluid Dynamics, Sound and Acoustics.

PSO2: Students will have fundamental and advanced level knowledge of Electricity, Magnetism, Electronics, Nuclear Physics, Accelerators, Counters and Non-conventional energy sources and their applications for the development of the society.

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Kadegaon

DEPARTMENT OF PHYSICS

(2021-2022)

Course Outcomes

B.Sc. Part-I (NEP-2020)

Semester-I

PHYSICS Paper- I

DSC- 1 A: Mechanics- I

Unit - I

Student will able to

CO1: Clear the basics of vector, derivatives and it's applicability in physical sciences.

CO2: Understand the frame of references and Newtonian lows of motions.

Unit- II

Student will able to

CO3: Knows the ideas of conservation laws for the single particle as well as the dynamics of the particles.

CO4: Understand the ideas regarding angular velocity, angular momentum and torque.

CO5: Obtain the moment of inertia for the various geometrical objects.

Course Outcomes

B.Sc. Part-I

Semester-I

PHYSICS Paper- II

DSC- 2 A: Mechanics- II

Unit - I

Student will able to

CO1: Explain Kepler's laws of planetary motion. They explain Weightlessness & basic idea of global positioning system (GPS).

CO2: Obtain differential equation of SHM and its solutions

CO3: Describe damped oscillations and forced oscillations

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Unit- II

Student will able to

CO4: Clear the concept of bending of beam, bending moment and cantilever. They can obtain the expression of modulus of rigidity of material of the wire by torsional oscillation method.

CO5: Discuss the procedure used for the determination of surface tension by Jaeger's method.

Semester-II
PHYSICS Paper- III
DSC- 1B ELECTRICITY AND MAGNETISM-I

Unit - I

Student will able to

CO1: Understand Scalar and Vector Products, gradient, divergence, Curl of vectors and their significance.

CO2: Vector Integration, Line, surface and volume integrals of Vector fields.

CO3: Gauss-divergence theorem and Stoke's theorem of vectors.

Unit- II

Student will able to

CO4: Clear the concept of Electrostatic field, calculation of electric field from potential.

CO5: Capacitance of different shapes of conductor.

Semester-II
PHYSICS Paper- IV
DSC- 2B ELECTRICITY AND MAGNETISM-II

Unit - I

Student will able to

CO1: Gain the knowledge about complex numbers and their application in solving A. C. series LCR circuit. Describe the Owen's Bridge and its use for the determination of induction of coil.

CO2: State and explain the Biot-Savart's law & its applications.

CO3: Give difference between dia-,para- and ferro-magnetic materials.

Unit- II

Student will able to

CO4: Understand the Faraday's law and Lenz's law of electromagnetic induction. Clear the concepts of self and mutual inductance

CO5: Know about Maxwell's equations, Poynting vector

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Course Outcomes

B.Sc. Part-II

Semester-III

PHYSICS Paper-V

DSC-C1: Thermal Physics and Statistical Mechanics-I

Unit- I

Student will able to

CO1: Understand kinetic theory of gasses.

CO2: Know about transport phenomenon of the gasses.

CO3: Understand the constructions of various types of thermometers.

Unit- II

Student will able to:

CO4: Explain laws of thermodynamics.

CO5: Understand various thermodynamic processes.

Course Outcomes

B.Sc. Part-II

Semester-III

PHYSICS Paper-VI

DSC-C2: WAVES AND OPTICS - I

Unit- I

Student will able to

CO1: Discuss the analytically and graphically the resultant motion of superposition of two collinear harmonic oscillations having equal frequencies and different frequencies

CO2: Explain analytically resultant motion of two SHM' acting at right angles to each other. Obtain the expression of frequencies of coupled oscillatory systems.

CO3: Understand the concept of Piezo-electric effect. Explain the methods of detection of ultrasonic waves.

Unit- II

Student will able to:

CO4: Classify the types of transducers and explain characteristics of transducers. Explain the construction and working of pressure microphone and loudspeaker

CO5: Derive the Poiseuille's formula for coefficient of viscosity of a liquid. Discuss the principle, construction and working of Knudsen gage

Course Outcomes

B.Sc. Part-II

Semester-IV

PHYSICS Paper-VII

DSE-D1: Thermal Physics and Statistical Mechanics-II

Unit- I

Student will able to

CO1: Understand thermodynamic potential.

CO2: Know about theory of radiations.

CO3: Understand black body radiation spectrum.

Unit- II

Student will able to:

CO4: Understand the basic concepts in a classical mechanics.

CO5: Explain the concept of quantum statistics.

Semester-IV

PHYSICS Paper-VIII

DSC-D2: WAVES AND OPTICS - II

Unit- I

Student will able to

CO1: Clear the concept of cardinal points of an optical system. Obtain the relation between lateral, axial angular magnifications.

CO2: Explain the Rayleigh's criteria for limit of resolution. Explain concept of polarization and polarization by double refraction.

Unit – II

Student will able to

CO3: Understand the principle of superposition. Determine the wavelength of monochromatic light by Lloyd's single

CO4: Describe the Newton's rings experiment and its application for determination of wavelength and refractive index of light.

CO5: Determine wavelength of light using diffraction grating, Explain the construction, working and properties of zone plate

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Course Outcomes

B.Sc. Part-III
Semester-V
PHYSICS Paper-IX
DSE-E1 Mathematical Physics

UNIT-I

Students will able to

CO1: Describe the method of separation of variables for solving second order partial differential equations. Obtain the solution of two- & three-dimensional partial differential equation in cartesian coordinates

CO2: Obtain the solution of differential equation of progressive wave

CO3: Explain the Series solution method of solving second order linear differential equation

UNIT-II

Students will able to-

CO4: Define Gamma function and Beta function. Obtain the relation between Beta and Gamma functions,

CO5: Explain graphical representation of complex numbers

B.Sc. Part-III
Semester-VI
PHYSICS Paper-X
DSE-E2 Quantum Mechanics

Unit – I:

Students will be able to:

CO1: Understand concept of matter waves.

CO2: Understand Schrödinger time dependent and time independent wave equations in 1D and 3D.

Unit – II:

CO3: Understand and explain different operators in quantum mechanics

CO4: Understand quantum mechanical treatment of particle in a rigid box.

CO5: Understand the Schrodinger's equation for hydrogen atom.

B.Sc. Part-III
Semester-VI
PHYSICS Paper-XI
DSE-E3 Classical Mechanics and Classical Electrodynamics

Unit – I:

Students will be able to:

CO1: Explain D'Alembert's principle. Explain different motions using Lagrange's equation.

CO2: Explain Hamilton's principle and it's applications.

Unit – II:

CO3: Understand postulates of special theory of relativity and relativistic addition of velocities and length contraction.

CO4: Understand Length contraction, Time dilation, Variation of mass with velocity, Mass-energy relation.

CO5: Explain motions of charged particles in a electric and magnetic fields.

B.Sc. Part-III
Semester-VI
PHYSICS Paper-XII
DSE-E4 Digital and Analog Circuits and Instrumentation

Unit – I:

Students will be able to:

CO1: Explain different types of flip-flops and binary adder circuits

CO2: Discuss working of amplifiers and oscillators using transistors.

Unit – II:

CO3: Explain working of various blocks in block diagram of C.R.O. They can use C.R.O. for different applications.

CO4: Discuss workings of differential amplifier and operational amplifier.

CO5: Understand internal circuit diagram and working of IC555. They can use IC555 for different applications.

B.Sc. Part-III
Semester-VI
PHYSICS Paper-XIII
DSE-F1 Nuclear and Particle Physics

Unit - I

Students will able to:

CO1: Describe the basic properties of nuclei. Obtain Semi empirical mass formula

CO2:. Explain the construction & working of particle accelerators such as cyclotron, betatron, and synchrotrons

Unit II:

Students will able to:

CO3: Describe the principle, construction and working of Geiger-Mueller counter, scintillation counter, Wilson cloud chamber, semiconductor detector,

CO4: Gain the knowledge on the basic aspects of particle Physics – the fundamental interactions

CO5: Understand the concept of quark model

B.Sc. Part-III
Semester-VI
PHYSICS Paper-XIV
DSE-F2 Solid state physics

Unit – I:

Students will be able to:

CO1: Understand the concepts of simple cubic, body centered cubic, face centered cubic and hexagonal crystal structures.

CO2: Explain the Co-ordination number, atomic radius, atoms per unit cell and packing fraction.

CO3: Understand Reciprocal lattice and its properties, Brillouin zone, Diffraction of X-rays by crystals, Ewald construction.

Unit -II:

Students will be able to:

CO4: Describe the Classical Langevin theory of diamagnetic and paramagnetic materials, quantum mechanical treatment of paramagnetism, Curie's law, Weiss theory of ferromagnetism, explanation of B-H curve, Hysteresis and energy loss.

CO5: Understand the concept of Kroning–Penny model, origin of energy gap, velocity of electrons according to band theory, understand the concept of Hall Effect – Hall voltage and Hall Coefficient.

B.Sc. Part-III
Semester-VI
PHYSICS Paper-XV
DSE-F3 Atomic and Molecular Physics and Astrophysics

Unit – I:

Students will be able to:

CO1: Understand doublet fine structure of alkali spectra. They can explain Zeeman effect .

CO2: Explain vibrational and rotational spectra of molecule.

CO3: Discuss Raman Effect on the bases of classical theory. They can distinguish between Raman spectra and IR spectra.

Unit – II:

CO4: Understand different cosmological theories.

CO5: Explain evolution of massive stars. They can Sun surface, sunspots and sunspots cycle.

B.Sc. Part-III
Semester-VI
PHYSICS Paper-XVI
DSE-F4 Energy Studies and Materials Science

Unit – I:

Students will be able to:

CO1: Understand importance of wind power energy. Explain types of a wind turbine generators.

CO2: Understand essential subsystems in solar energy plant. Understand satellite power station

Unit – II:

CO3: Understand process of biomass energy.

CO4: Understand superconductivity and Meissner effect.

CO5: Understand concept of nano- materials. Explain different processes of production of nano-materials.

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DEPARTMENT OF BOTANY

Course Outcomes (COs)

Academic year 2021-22

B. Sc. I, Sem. I

Botany Paper I DSC- 13 A: BIODIVERSITY OF MICROBES, ALGAE AND FUNGI

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Developing interest in biodiversity of microbes e.g., viruses and bacteria.
CO-2	Developing skill of identification of algae and its economic importance.
CO-3	Imparting knowledge of fungi with respect to identification and economic importance.
CO-4	Developing interest in biodiversity.

B. Sc. I, Sem. I

Botany Paper II DSC- 14 A: BIODIVERSITY OF ARCHEGONIATE- Bryophytes, Pteridophytes, Gymnosperms

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Developing interest in biodiversity of archegoniate.
CO-2	Creating interest in study of life of bryophytes.
CO-3	Developing skill in identification and economic importance of pteridophytes
CO-4	Imparting knowledge of life of gymnosperms and their economic importance.

B. Sc. I, Sem. II

Botany Paper III DSC- 13 B: PLANT ECOLOGY

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Developing interest in environmental factors and their interaction with living world.
CO-2	Acquiring knowledge of plant communities and succession.
CO-3	Creating interest in ecosystem, food web, food chain and ecological pyramids.
CO-4	Developing interest in phytogeography on India and biogeochemical cycles.

B. Sc. I, Sem. II

Botany Paper IV DSC- 14 B: PLANT TAXONOMY

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Creating interest in plant taxonomy.
CO-2	Acquiring knowledge in identification and nomenclature of plants.

CO-3	Imparting knowledge in classification of plants.
CO-4	Developing interest in herbarium and botanical gardens.

B. Sc. II, Sem. III

Botany Paper V: DSC C13: EMBRYOLOGY OF ANGIOSPERMS

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Developing knowledge in flowering plants.
CO-2	Knowing parts of flower and their role in reproduction.
CO-3	Acquiring knowledge of process of reproduction and fertilization in flowering plants.
CO-4	Imparting advantages of different types of fertilization and economic importance of embryony.

B. Sc. II, Sem. III

Botany Paper VI: DSC C14: PLANT PHYSIOLOGY

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Acquiring the process of water absorption and transport in plant.
CO-2	Understanding of role of mineral nutrition in growth and development of plant.
CO-3	Knowing the importance of photosynthesis on earth.
CO-4	Imparting process of growth in plants with respect to environmental condition.

B. Sc. II, Sem. IV

Botany Paper VII: DSC D13: PLANT ANATOMY

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Knowing the morphological and anatomical organization of plant parts.
CO-2	Imparting the role of tissue system in plant's growth and development.
CO-3	Acquiring the knowledge of anatomical growth patterns in plants.

B. Sc. II, Sem. IV

Botany Paper VIII: DSC D14: PLANT METABOLISM

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Developing knowledge of types of enzymes and enzyme action.
CO-2	Acquiring knowledge of nitrogen metabolism in plants.
CO-3	Knowing the types and process of respiration in plants.
CO-4	Developing the knowledge of seed germination and dormancy in plants.

B. Sc. III, Sem. V

Botany Paper- IX DSE –E25 Genetics and Plant Breeding

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Developing knowledge genetics and Mendelism.
CO-2	Knowing linkage and recombination.
CO-3	Acquiring knowledge of chromosomes structure and variation.
CO-4	Imparting advantages of plant breeding.

B. Sc. III, Sem. V

Botany Paper- XDSE –E26 Microbiology, Plant Pathology and Mushroom Culture Technology

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Acquiring the knowledge of microbiology and methods in microbiology.
CO-2	Understanding of role of microorganisms in industrial microbiology.
CO-3	Knowing the importance of plant pathology for agriculture.
CO-4	Imparting process of mushroom technology.

B. Sc. III, Sem. V

Botany Paper- XI DSE –E27 Cytology and Research Techniques in Biology

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Knowing the cell theory, cell cycle and cell division.
CO-2	Imparting the structure and role on cell organelles.
CO-3	Acquiring the knowledge of sub cellular structures and cell membrane.
CO-4	Acquiring the knowledge of research techniques in biology

B. Sc. III, Sem. V

Botany Paper- XII DSE–E28 Horticulture and Gardening

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Developing knowledge of importance and divisions of horticulture.
CO-2	Acquiring knowledge of horticultural produce and management of pest and diseases.
CO-3	Knowing the nursery technique and types of plant culture.
CO-4	Developing the knowledge of Landscape Gardening.

B. Sc. III, Sem. VI

Botany Paper- XIII DSE –F25 Plant Biochemistry and Molecular Biology

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Developing knowledge in classification, structure and significance of Carbohydrates.
CO-2	Knowing the classification, structure and significance of Lipids.
CO-3	Acquiring knowledge of classification, structure, biosynthesis and significance of proteins.
CO-4	Imparting the structure, composition and functions of Nucleic Acids.

B. Sc. III, Sem. VI

Botany Paper- XIV DSE –F26 Bioinformatics, Biostatistics and Economic Botany

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Acquiring the knowledge of bioinformatics and its applications.
CO-2	Understanding of biostatistics and different statistical methods of data interpretation.
CO-3	Knowing the importance of Economic Botany of Cereals, Legumes and Oils.
CO-4	Imparting the knowledge of Economic Botany of Spices, Beverages and Fibers.

B. Sc. III, Sem. VI

Botany Paper- XV DSE –F27 Plant Biotechnology and Paleobotany

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Knowing the history, importance and scope of Plant Biotechnology.
CO-2	Imparting the role of Recombinant DNA Technology in biotechnology.
CO-3	Acquiring the knowledge of Plant Tissue Culture technique.
CO-4	Understanding the importance of Paleobotany.

B. Sc. III, Sem. VI

Botany Paper- XVI DSE –F28 Bio fertilizers and Herbal Drug Technology

Course Outcomes (CO)	By the end of this Course students are:
CO-1	Developing knowledge of types of Biofertilizers.
CO-2	Acquiring knowledge of Herbal Medicines.
CO-3	Knowing the types and process of Herbal cosmetology.
CO-4	Developing the knowledge of Pharmacognosy.

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Department of Microbiology

Academic Year 2021-22

PART- A

Name of Department: Microbiology

Vision: To create a learning environment that excites and informs undergraduates about microbiology and its many applications in everyday life.

Mission:

1. To provide training through unconventional, innovative coursework that emphasizes inquiry-based learning.
2. To improve the timely progression of majors from all backgrounds to higher education
3. To increase exposure to a diverse scientific community where there are increased opportunities for students.
4. To prepare the students for competitive examinations in microbiology.

Name of Programme: B.Sc. Microbiology

The B.Sc. Microbiology programme offered by Shivaji University is a three-year full-time programme. In order to make students aware of their career in one of the most versatile branches of science and their scientific temperaments, students will get exposure to the depth of their core understanding of various aspects of microbiology during this three-year study.

PROGRAMME OUTCOME (B.Sc. Microbiology)

- **PO1.** Students will be able to understand the fundamental microbiology concepts.
- **PO2.** Students will be able to solve various problems by identifying the essential parts of a problem and formulating a strategy.
- **PO3.** Students will be able to acquire specific knowledge and technical skills needed for employment in industries, teaching fields, and their choice of subject for higher education.
- **PO4.** Students will be able to apply their fundamental knowledge to address cross-cutting issues such as environmental issues for sustainable development.
- **PO5.** Students will be able to communicate effectively with the knowledge of critical thinking and problem-solving approaches, i.e., being able to comprehend and write effective reports, make effective presentations, and document.
- **PO6.** Students will be able to understand the beneficial and harmful impacts of microorganisms on human welfare as well as the environment.

Programme-Specific Outcomes (B. Sc. Microbiology)

- **PSO1.** Students will be able to qualify for competitive examinations like NET, SET, GATE, ICMR, ICAR, TIFR, etc.
- **PSO2.** Students will have opportunities to serve in different clinical, pharmaceutical, biofertilizer, research and development, as well as food and dairy industries.

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Department of Microbiology

- **PSO3.** Students will have opportunities in the M.Sc. Microbiology, M.Sc. Biochemistry, and M.Sc. Biotechnology programmes at the university level.
- **PSO4.** Collaborate effectively on team-oriented projects in the field of microbiology or other related fields.
- **PSO5.** Students can start their own clinical laboratory or business (entrepreneurship).
- **PSO6.** Students will be able to interpret chromatography, electrophoresis, and colorimeters for structural elucidation.
- **PSO7.** Gain complete knowledge about all the fundamental concepts of microbiology.
- **PSO8.** Understand the background of microbial biochemistry, genetics, medical microbiology, and different bacterial isolation methods.
- **PSO9.** Understand the knowledge of bacterial, viral, and fungal diseases. Different chemotherapeutic agents, immunology, characteristics of microorganisms, techniques in microbiology, and environmental and agricultural microbiology

Part B

Syllabus Structure: Annexure I

Semester-wise courses, their COs, and mapping matrices

1. **BSc. I, Semester I, DSC 25A: Paper I (Introduction to Microbiology)**
2. **BSc. I, Semester I, DSC 26A: Paper II (Microbial Diversity)**
3. **BSc. I, Semester II, DSC 25B: Paper III (Bacteriology)**
4. **BSc. I, Semester II, DSC 26B, Paper IV (Microbial Biochemistry)**

Course Outcomes

B.Sc. Part-I, Sem-I DSC-25A: Microbiology Paper I (Introduction to Microbiology)

- **CO1.** After successful completion of the course, students will be able to understand the history of microbiology, important milestones in microbiology, and the important contributions of scientists.
- **CO2.** After successful completion of the course, students will be able to understand the classification and beneficial and harmful activities of microorganisms.
- **CO3.** After successful completion of the course, students will be able to understand staining and staining procedures as well as general principles of microscopy.
- **CO4.** After successful completion of the course, students will be able to understand an overview of the scope of microbiology.

DSC-26A: Microbiology Paper II (Microbial Diversity)

- **CO1.** After successful completion of the course, students will be able to understand the various nutritional requirements of microorganisms.
- **CO2.** After successful completion of the course, students will be able to understand the types of microorganisms and the ultrastructure of prokaryotic and eukaryotic cells.
- **CO3.** After successful completion of the course, students will be able to understand the physical and chemical methods for controlling microorganisms.
- **CO4.** After successful completion of the course, students will be able to understand the nutritional types of microorganisms as well as the cultivation methods of microorganisms.

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SEM-II-DSC 25B: Microbiology Paper-III (Bacteriology)

- **CO1.** After successful completion of the course, students will be able to understand the basic concepts of bacterial cell organization and cytology.
- **CO2.** After successful completion of the course, students will be able to understand the structure and function of cytoplasmic components in bacteria.
- **CO3.** After successful completion of the course, students will be able to understand the isolation of microorganisms from natural habitats and the cultivation and preservation of microbial cultures.
- **CO 4.** After successful completion of the course, students will be able to understand in detail the systematic study of pure cultures, culture characteristics, and biochemical characteristics.

DSC-26B-Microbiology Paper IV (Microbial Biochemistry)

- **CO1.** After successful completion of the course, students will be able to understand the basic structure of amino acids, peptides, and the structural levels of proteins and carbohydrates.
- **CO2.** After successful completion of the course, students will be able to understand simple lipids, their classification, structure, and types of enzymes and nucleic acids.
- **CO3.** After successful completion of the course, students will be able to understand metabolism in bacteria and the fundamental principles of energy.
- **CO4.** After successful completion of the course, students will be able to understand ATP generation by substrate-level phosphorylation, oxidative phosphorylation, and glucose catabolism by the EMP and TCA cycles.

B.Sc. I Semester I and II Practical Course (Introduction to Microbiology and Microbial Diversity)

- **CO1.** After successful completion of the course, students will be able to understand microbiology's good laboratory practices, biosafety, microscopic observation of bacteria, and the study of instruments used in microbiology laboratories.
- **CO2.** After successful completion of the course, students will be able to understand the isolation of pure cultures of bacteria, the demonstration of microbial flora in water and air, and the enumeration of bacteria from water and milk by the SPC method.
- **CO3.** After successful completion of the course, students will be able to understand the preparation of liquid and solid culture media, sterilization of culture media and glassware, and assessment for sterility.
- **CO4.** After successful completion of the course, students will be able to understand biochemical tests, the detection of enzyme production and sugar fermentation ability of bacteria, and the MBRT test.

Syllabus Structure: Annexure II
Semester-wise courses, their COs, and mapping matrices

1. **Sc. Part II (CBCS) Sem. III DSC-C25: Microbiology Paper No. V (Microbial Physiology and Metabolism)**
2. **Sc. Part II (CBCS) Sem. IIIDSC-C26: Microbiology Paper No. VI (Applied Microbiology)**

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3. **Sc. Part II (CBCS) Sem. IV DSC-D25: Microbiology Paper No. VII (Microbial Genetics and Molecular Biology)**
4. **Sc. Part II (CBCS) Sem. IV DSC-D26: Microbiology Paper No. VIII (Basics in Medical Microbiology and Immunology)**

B.Sc. Part II (CBCS) Sem. III

Paper No. DSC-C25: Microbiology Paper No. V (Microbial Physiology and Metabolism)

- **CO1.** After successful completion of the course, students will be able to understand the growth of microorganisms, synchronous growth, and diauxic growth.
- **CO2.** After successful completion of the course, students will be able to understand the effects of environmental factors on growth and transport across the cell membrane.
- **CO3.** After successful completion of the course, students will be able to understand the catabolism of glucose (EMP, HMP, ED, and TCA cycles).
- **CO4.** After successful completion of the course, students will be able to understand. Homolytic and heterolytic fermentation

Paper No. DSC-C26: Microbiology Paper No. VI (Applied Microbiology)

- **CO1.** After successful completion of the course, students will be able to understand primary and secondary screening and fermentation media.
- **CO2.** After successful completion of the course, students will be able to understand the basic concepts of fermentation and primary and secondary metabolites.
- **CO3.** After successful completion of the course, students will be able to understand air microbiology, water microbiology, and milk microbiology.
- **CO4.** After successful completion of the course, students will be able to understand pasteurization of milk, LTH, HTST, UHT, and phosphatase tests.

B.Sc. Part II (CBCS) Sem. IV

Paper No. DSC-D25: Microbiology Paper No. VII (Microbial Genetics and Molecular Biology)

- **CO1.** After successful completion of the course, students will be able to understand forms of DNA, genes, genomes, mutations, and genetic codes.
- **CO2.** After successful completion of the course, students will be able to understand the basic concepts of mutation, spontaneous mutation, and induced mutation.
- **CO3.** After successful completion of the course, students will be able to understand gene transfer in bacteria, plasmids, and natural and artificial plasmids.
- **CO4.** After successful completion of the course, students will be able to understand the basics of DNA repair, photoreactivation, and the lac operon.

DSC-D26: Microbiology Paper No. VIII (Basics in Medical Microbiology and Immunology)

- **CO1.** After successful completion of the course, students will be able to understand host-parasite interactions, virulence factors, and types of diseases.

- **CO2.** After successful completion of the course, students will be able to understand types of infections, modes of transmission of diseases, and the normal flora of the human body.
- **CO3.** After successful completion of the course, students will be capable of understanding types of immunity, non-specific defence mechanisms, and antigens.
- **CO4.** After successful completion of the course, students will be able to understand the types of antibodies, immune responses, and mechanisms of antigen-antibody reactions.

BSc II Practical Course Total Marks: 100

- **CO1.** After successful completion of the course, students will be able to understand staining and staining procedures and the preparation of media.
- **CO2.** After successful completion of the course, students will be able to understand biochemical tests and the effects of environmental factors on microorganisms.
- **CO3.** After successful completion of the course, students will be able to understand bacteriological analysis of water, primary screening, and the determination of growth phases.
- **CO4.** After successful completion of the course, students will be able to understand the isolation and identification of pathogens, the determination of blood groups, and serological tests.

B.Sc. Part III (CBCS)
Syllabus Structure: Annexure III
Semester-wise courses, their COs, and mapping matrices
Semester V: Papers IX-DSE-E49, X-DSE-E50, XI-DSE-E51, XII-DSE-E52,

Semester VI: Papers XIII-DSE-F49, XIV-DSE-F50, XV-DSE-F51, and XVI-DSE-F52

1. **Paper: IX DSE-E49: Virology**
2. **Paper: X DSE-F50: Immunology**
3. **Paper: XI DSE-E51: Food and Industrial Microbiology**
4. **Paper: XII DSE-F52: Agricultural Microbiology**
5. **Paper: XIII DSE-E49: Microbial Genetics**
6. **Paper: XIV DSE-F50: Microbial Biochemistry**
7. **Paper: XV DSE-E51: Environmental Microbiology**
8. **Paper: XVI DSE-F52: Medical Microbiology**

Paper: IX DSE-E49: Virology

- **CO1.** After successful completion of the course, students will be able to understand the structural properties of viruses, T4 bacteriophage, TMV, and HIV. Reproduction of bacteriophages and a one-step growth experiment.
- **CO2.** After successful completion of the course, students will be able to understand the isolation, cultivation, and purification of viruses through density gradient centrifugation and precipitation. Plaque and pock assay methods
- **CO3.** After successful completion of the course, students will be able to understand lysogeny, temperate phages, the reproduction of plant viruses TMV and Adenovirus, and lysogeny by lambda phages.

- **CO4.** After successful completion of the course, students will be able to understand oncogenesis, types of cancers, hypotheses about cancer, viral gene hypothesis, provirus, protovirus, and oncogenic theories.

Paper X, DSE-E50: Immunology

- **CO1.** After successful completion of the course, students will be able to understand the cells and organs of the immune system, primary and secondary lymphoid organs, and the molecular basis of antibody production.
- **CO2.** After successful completion of the course, students will be able to understand the nature, properties, complement activation, concepts of polyclonal and monoclonal antibodies, and application of monoclonal antibodies.
- **CO3.** After successful completion of the course, students will be able to understand the general characteristics of cytokines and interferons and the basic concept of hypersensitivity.
- **CO4.** After successful completion of the course, students will be able to understand immunological tolerance, its cellular mechanism, the autoimmunity concept, and autoimmune diseases and their treatments.

Paper XI, DSE-E51: Food and Industrial Microbiology

- **CO1.** After successful completion of the course, students will be able to understand food microbiology, food spoilage, methods of food preservation, food poisoning, and food infections.
- **CO2.** After successful completion of the course, students will be able to understand the concept and application of probiotics, strain improvement, scale-up of fermentation, and microbiological assays.
- **CO3.** After successful completion of the course, students will be capable of understanding the preservation of industrially important microorganisms and the industrial production of alcohol, grape wine, and penicillin.
- **CO4.** After successful completion of the course, students will be able to predict the downstream processing, product recovery, and testing of sterility, pyrogen, carcinogenicity, toxicity, and allergens.

Paper XII, DSE-E52, Agricultural Microbiology:

- **CO1.** After successful completion of the course, students will be able to learn and understand the physical and chemical characteristics of soil, the role of microbes in soil fertility, microbiological interactions, and the role of microbes in the elemental cycle (carbon, nitrogen, and phosphorous cycles).
- **CO2.** After successful completion of the course, students will be able to understand the role of microbes in the reclamation of soil, manure, and compost, including green manure, city compost, and vermicompost.
- **CO3.** After successful completion of the course, students will be capable of learning and understanding biofertilizers, nitrogen-fixing microbes, phosphate-solubilizing microbes, and biopesticides.
- **CO4.** After successful completion of the course, students will be able to learn and understand the biodegradation of cellulose and pesticides, plant pathology, and plant diseases.

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B.Sc. Part III (CBCS) Semester VI

Paper No. DSE-F49, Microbiology Paper No. XIII (Microbial Genetics)

- **CO1.** After successful completion of the course, students will be able to understand the topic focused on the basic concept of the bacterial genome, molecular mechanisms of gene expression, and genetic regulation.
- **CO2.** After successful completion of the course, students will be able to understand the expression of mutation, suppressor mutation, methods of isolation, and detection of mutants based on relative survival, growth, and visual detection.
- **CO3.** After successful completion of the course, students will be able to understand genetic complementation, extrachromosomal inheritance, DNA sequencing, DNA fingerprinting, and PCR.
- **CO4.** After successful completion of the course, students will be able to understand the tools, techniques, and applications of genetic engineering in medicine, agriculture, industry, and the environment.

Paper DSE-F50 Microbiology Paper XIV (Microbial Biochemistry)

- **CO1.** After successful completion of the course, students will be able to understand the definition, properties, structure, specificity, and mechanism of action of enzymes. Allosteric enzymes, extraction, and purification of enzymes
- **CO2.** After successful completion of the course, students will learn assays of enzymes, ribozymes, and isozymes, immobilization of enzymes, methods, and applications.
- **CO3.** After successful completion of the course, students will be able to gain knowledge of factors affecting enzyme activity and the kinetics of substrate-enzyme catalyzed reactions (Michaelis-Menten equation, km, Vmax, etc.).
- **CO4.** After successful completion of the course, students will be able to understand microbial metabolism and the assimilation of carbon, nitrogen, and Sulphur. Biosynthesis of DNA, RNA, and proteins; regulation of enzyme synthesis

Paper No. DSE-F 51, Microbiology Paper No. XV (Environmental Microbiology)

- **CO1.** After successful completion of the course, students will be able to learn and understand the general characteristics of waste, sewage microbiology, biological treatment, and chemical treatment (chlorination).
- **CO2.** After successful completion of the course, students will be able to learn about and understand the characteristics and treatment of waste generated by sugar industries, distilleries, and dairy farms. Eutrophication and its control
- **CO3.** After successful completion of the course, students will be able to understand biological safety in laboratories, environmental monitoring, bioburden tests, and environmental impact assessment.
- **CO4.** After successful completion of the course, students will be able to learn and understand the knowledge of bioremediation and bioleaching—definition, types, and applications—laboratory scale and pilot scale leaching, in situ leaching, and leaching of copper and uranium.

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Paper No. DSE-F52 Microbiology Paper No. XVI (Medical Microbiology)

- **CO1.** After successful completion of the course, students will be able to learn about and understand the bacterial diseases caused by *Mycobacterium tuberculosis, Klebsiella pneumonia, Treponema palidium, Pseudomonas aeruginosa, Vibrio cholerae, etc.*
- **CO2.** After successful completion of the course, students will be able to learn about and understand diseases caused by protozoa, viruses, and fungi. Chemotherapy, chemoprophylaxis.
- **CO3.** After successful completion of the course, students will be able to understand and learn the mode of action of antimicrobial agents, including antibacterial, antifungal, antiviral, and antiprotozoal drugs.
- **CO4.** After successful completion of the course, students will be able to understand and learn about drug resistance, monoprophylaxis, vaccines, and immune sera—examples with applications.

Practical Course

- **CO1.** After successful completion of the course, students will be able to understand the isolation of coliphage, the effect of UV light, transformation, isolation of auxotrophic mutants, electrophoresis, gradient plate technique, and the Ames test.
- **CO2.** After successful completion of the course, students will be able to understand the assay of amylase by the DNSA method, the Vit B12 assay, the penicillin assay, citric acid fermentation, amylase production, and DMC.
- **CO3.** After successful completion of the course, students will be able to understand the isolation of Azotobacter, Xanthomonas, Rhizobium, and PSB. BOD of sewage, Estimation of calcium and magnesium, determination of organic carbon content from soil, and COD of sewage
- **CO4.** After successful completion of the course, students will be able to understand the following: serological tests, hematology, urine analysis, estimation of hemoglobin, ELISA, determination of ESR in blood samples, PVC, etc.

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DEPARTMENT OF ZOOLOGY

COURSE OUTCOMES

PROGRAM OUTCOMES

PROGRAM SPECIFIC OUTCOMES

2021-22

COURSE OUTCOMES

Department of zoology- NEP

Paper I: dsc-15a (semester I) Animal Diversity- I

Zoology

- Students gain fundamental knowledge of general characters of kingdom protista and its locomotory organelles and locomotion.
- Students gain fundamental knowledge of general characters and classify upto classes of phylum Porifera with canal system.
- And general characters and classify upto classes of Phylum Cnidaria and its Polymorphism in hydroza.
- They also learn general characters and classify upto classes of phylum platyhelminthes with their life history and its parasitic adaptation.
- They also learn general characters of phylum Annelida with metamerism.
- And general characters of phylum Arthropoda and metamorphosis,vision of insects.

Paper- II dsc-16 A(semester II) Cell biology & evolutionary Biology

- To describe differences between prokaryotic and Eukaryotic cells.
- Understanding the structure and function of different cell and cell organelles.
- Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
- Structural and functional aspects of basic unit of life i.e. cell concepts.
- Explanation of the molecular organization of nucleic acids.
- Understanding the theories of Evolutions like Lamarckism, Darwinism, Neo-Darwinism.
- To study Direct Evidences of Evolution and types of fossils, Incompleteness of fossil record, Dating of fossils.
- Explain causes and role of extinction in evolution.

Paper II: dsc-16a (semester II) Animal Diversity and Insect Vectors

- Biodiversity boosts ecosystem productivity where, every species plays an important role.
- Student learning about animal attributes similarities, differences, and environments.
- Students gain fundamental knowledge of animal physiology with type study of rat.
- Student gain knowledge of different insect vectors with their diseases with respect to causal organism, life cycle and symptoms.
- Students are taught the detailed concepts of digestion, respiration and excretion the functioning of nerves and muscles.
- Imparts knowledge about various metabolic and physiological mechanisms of the human body in rat model.

Paper IV: dsc-16 b (semesterII) Genetics

- To study of Mendel's work on transmission of traits, Genetic Variation, Molecular basis of Genetic Information and Mendelian and post mendielian inheritance.
- To study the Multiple alleles w.r.t. ABO, Rh blood groups and coat colour in rabbit, sex linked inheritance, linkage and crossing over.
- To study concept behind genetic disorder, chromosomal mutations- various causes associated with humans.
- To identify chromosomal mutations and in borne errors of metabolism.
- To study Sex Chromosomal theory of sex determination, Genetic balance theory, Haploidy, Diploidy mechanism, Environmental sex determination, dosage compensation.

B.Sc- II COURSE OUTCOMES- NEP

Paper V – DSC....ANIMAL DIVERSITY-II

- Biodiversity boosts ecosystem productivity where, every species plays an important role.
- Student learning about animal attributes similarities, differences, and environments.
- Understood the animal classification system characterizes animals based on their anatomy, morphology, and evolutionary history, features of embryological development, geographical distribution and genetic composition of the animal kingdom (Agnatha, Pices, Amphibia, Reptile, Aves and Mammals).

- Understood the various systems like digestive system, mechanism of respiration, circulatory system and parental care in Phylum Vertebrata.
- Understood the differentiate venomous and non-venomous snakes and biting mechanism in snakes.
- This classification scheme is constantly developing as new information about species arises. Understanding and classifying the great variety of living species help us better understand how to conserve the diversity of life on earth.

Paper VI - BIOCHEMISTRY

- Understood the detailed concepts of structure and types of DNA and RNA, Carbohydrate, Protein and Lipid metabolism.
- Understood about interactions and interdependence of physiological and biochemical processes.
- Understood the study of enzyme classification and nomencelature, Mechanism of action, Enzyme Kinetics, Inhibition and Regulation, Isoenzymes, Co-enzymes and Co-factors.
- Understood the physiological and biochemical understanding through scientific enquiry into the nature of mechanical, physical, and biochemical functions of humans, their organs, and the cells of which they are composed.

Paper VII- REPRODUCTIVE BIOLOGY

- Structure and Hormone of pituitary Gland
- Student acquired knowledge about anatomical, histological, and physiological concept, feature study of male and female reproductive systems, and fertilization in rats and human.
- Understood about reproductive health and infertility in male and female and its causes, diagnosis and management of modern contraceptive technologies.

Paper-VIII-APPLIED ZOOLOGY

- Understood the fundamentals of animal sciences like Host-Parasite relationship, Economic importance of insects, Poultry Farming, and Sericulture understands the complex interactions among various living organisms.
- Understood the ethical principles and commit to professional ethics and responsibilities in delivering his duties.
- Understood the applied Zoology to one's own life and work.

PROGRAM OUTCOME

Bachelor of Science (BSc) offers theoretical as well as practical knowledge about different subject areas.

Following are the various Programme outcomes:

PO1.This course forms the basis of science and comprises It helps to -

PO2. Develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace.

PO3. Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life and get self-employment in the fields like Goat farming, pathological laboratories, organic manure preparation, the horticultural plant production, cultivation of crops in polyhouse condition, , culture laboratories etc. Science graduates can go to serve in industries or may opt for establishing their own industrial unit like sericulture, vermiculture and beekeping.

PO4.Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments

PO5.Think creatively (divergently and convergent) in explaining facts and figures or providing new solution to the problems.

PO6. Imbibe ethical, moral and social values in personal and social life leading to highly cultured and civilized personality as well as develop various communication skills such as reading, listening, speaking, etc., which we will help in expressing ideas and views clearly and effectively

PO7. After the completion of this course students have the option to go for higher studies i.e. M. Sc. and then do some research for the welfare of mankind and can even look for professional job oriented courses.After higher studies students can join as scientist.

Program Specific Outcomes

ZOOLOGY

PS1. Students could understand the functional anatomy, taxonomy and geographical distribution of chordates and Non-Chordates.

PS2.Students achieve knowledge and skill in the fundamentals of animal sciences and understand the complex interactions among various living organisms.

PS3.Students could comprehend Biostatistics, Bioinformatics and Medical Zoology, Molecular Biology, Biotechnology and Bio techniques, Endocrinology, Environmental Biology & Toxicology, Comparative anatomy of vertebrates, developmental biology, Physiology & Applied Zoology.

PS4. Student can get knowledge of physiology i.e mechanism of digestion, respiration, circulation, excretion, nervous system. They use their knowledge in pathological laboratories and clinics likes ESR and Blood cell count.

PS5. Student can build own small scale business in poultry farming, goat farming, fisheries, dairy, and in sericulture by acquiring knowledge of applied zoology.

PS6.Understanding of environmental conservation processes, importance, pollution control, biodiversity and protection of endangered species.

PS7.Understand the basic concept, fundamental principles and the scientific theories related to various scientific phenomenon and their relevancies in the day today life.

PS8. Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.

PS9.Develop the scientific attitude which makes the students open minded, critical observation, curiosity thing about biotechnical methods.

PS10. Acquire the comprehension about pathogen, pathogenicity vector and human diseases and study of antibiotics.

PS11.Student will gain knowledge about anatomical, histological, physiological concept, feature study of male and female reproductive system and fertilization in rat and human. PS12. Understand about reproductive Health and infertility in male and female and its causes, diagnosis and management modern contraceptive technologies.

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Head of the Department

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Dept. of Zoology
Bharati Vidyapeeth's
M B.S.K. Kanya Mahavidyalaya,
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Bharati Vidyapeeth's

Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon

DEPARTMENT OF ZOOLOGY

COURSE OUTCOMES

PROGRAM OUTCOMES

PROGRAM SPECIFIC OUTCOMES

2022-23

COURSE OUTCOMES

Department of zoology- NEP

Paper I: dsc-15a (semester I) Animal Diversity- I

Zoology

- Students gain fundamental knowledge of general characters of kingdom protista and its locomotory organelles and locomotion.
- Students gain fundamental knowledge of general characters and classify upto classes of phylum Porifera with canal system.
- And general characters and classify upto classes of Phylum Cnidaria and its Polymorphism in hydroza.
- They also learn general characters and classify upto classes of phylum platyhelminthes with their life history and its parasitic adaptation.
- They also learn general characters of phylum Annelida with metamerism.
- And general characters of phylum Arthropoda and metamorphosis,vision of insects.

Paper- II dsc-16 A(semester II) Cell biology & evolutionary Biology

- To describe differences between prokaryotic and Eukaryotic cells.
- Understanding the structure and function of different cell and cell organelles.
- Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
- Structural and functional aspects of basic unit of life i.e. cell concepts.
- Explanation of the molecular organization of nucleic acids.
- Understanding the theories of Evolutions like Lamarckism, Darwinism, Neo-Darwinism.
- To study Direct Evidences of Evolution and types of fossils, Incompleteness of fossil record, Dating of fossils.
- Explain causes and role of extinction in evolution.

Paper II: dsc-16a (semester II) Animal Diversity and Insect Vectors

- Biodiversity boosts ecosystem productivity where, every species plays an important role.
- Student learning about animal attributes similarities, differences, and environments.
- Students gain fundamental knowledge of animal physiology with type study of rat.
- Student gain knowledge of different insect vectors with their diseases with respect to causal organism, life cycle and symptoms.
- Students are taught the detailed concepts of digestion, respiration and excretion the functioning of nerves and muscles.
- Imparts knowledge about various metabolic and physiological mechanisms of the human body in rat model.

Paper IV: dsc-16 b (semesterII) Genetics

- To study of Mendel's work on transmission of traits, Genetic Variation, Molecular basis of Genetic Information and Mendelian and post mendielian inheritance.
- To study the Multiple alleles w.r.t. ABO, Rh blood groups and coat colour in rabbit, sex linked inheritance, linkage and crossing over.
- To study concept behind genetic disorder, chromosomal mutations- various causes associated with humans.
- To identify chromosomal mutations and in borne errors of metabolism.
- To study Sex Chromosomal theory of sex determination, Genetic balance theory, Haploidy, Diploidy mechanism, Environmental sex determination, dosage compensation.

B.Sc- II COURSE OUTCOMES- NEP

Paper V – DSC....ANIMAL DIVERSITY-II

- Biodiversity boosts ecosystem productivity where, every species plays an important role.
- Student learning about animal attributes similarities, differences, and environments.
- Understood the animal classification system characterizes animals based on their anatomy, morphology, and evolutionary history, features of embryological development, geographical distribution and genetic composition of the animal kingdom (Agnatha, Pices, Amphibia, Reptile, Aves and Mammals).

- Understood the various systems like digestive system, mechanism of respiration, circulatory system and parental care in Phylum Vertebrata.
- Understood the differentiate venomous and non-venomous snakes and biting mechanism in snakes.
- This classification scheme is constantly developing as new information about species arises. Understanding and classifying the great variety of living species help us better understand how to conserve the diversity of life on earth.

Paper VI - BIOCHEMISTRY

- Understood the detailed concepts of structure and types of DNA and RNA, Carbohydrate, Protein and Lipid metabolism.
- Understood about interactions and interdependence of physiological and biochemical processes.
- Understood the study of enzyme classification and nomencelature, Mechanism of action, Enzyme Kinetics, Inhibition and Regulation, Isoenzymes, Co-enzymes and Co-factors.
- Understood the physiological and biochemical understanding through scientific enquiry into the nature of mechanical, physical, and biochemical functions of humans, their organs, and the cells of which they are composed.

Paper VII- REPRODUCTIVE BIOLOGY

- Structure and Hormone of pituitary Gland
- Student acquired knowledge about anatomical, histological, and physiological concept, feature study of male and female reproductive systems, and fertilization in rats and human.
- Understood about reproductive health and infertility in male and female and its causes, diagnosis and management of modern contraceptive technologies.

Paper-VIII-APPLIED ZOOLOGY

- Understood the fundamentals of animal sciences like Host-Parasite relationship, Economic importance of insects, Poultry Farming, and Sericulture understands the complex interactions among various living organisms.
- Understood the ethical principles and commit to professional ethics and responsibilities in delivering his duties.
- Understood the applied Zoology to one's own life and work.

PROGRAM OUTCOME

Bachelor of Science (BSc) offers theoretical as well as practical knowledge about different subject areas.

Following are the various Programme outcomes:

PO1.This course forms the basis of science and comprises It helps to -

PO2. Develop scientific temper and thus can prove to be more beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace.

PO3. Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life and get self-employment in the fields like Goat farming, pathological laboratories, organic manure preparation, the horticultural plant production, cultivation of crops in polyhouse condition, , culture laboratories etc. Science graduates can go to serve in industries or may opt for establishing their own industrial unit like sericulture, vermiculture and beekeping.

PO4.Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments

PO5.Think creatively (divergently and convergent) in explaining facts and figures or providing new solution to the problems.

PO6. Imbibe ethical, moral and social values in personal and social life leading to highly cultured and civilized personality as well as develop various communication skills such as reading, listening, speaking, etc., which we will help in expressing ideas and views clearly and effectively

PO7. After the completion of this course students have the option to go for higher studies i.e. M. Sc. and then do some research for the welfare of mankind and can even look for professional job oriented courses.After higher studies students can join as scientist.

Program Specific Outcomes

ZOOLOGY

PS1. Students could understand the functional anatomy, taxonomy and geographical distribution of chordates and Non-Chordates.

PS2.Students achieve knowledge and skill in the fundamentals of animal sciences and understand the complex interactions among various living organisms.

PS3.Students could comprehend Biostatistics, Bioinformatics and Medical Zoology, Molecular Biology, Biotechnology and Bio techniques, Endocrinology, Environmental Biology & Toxicology, Comparative anatomy of vertebrates, developmental biology, Physiology & Applied Zoology.

PS4. Student can get knowledge of physiology i.e mechanism of digestion, respiration, circulation, excretion, nervous system. They use their knowledge in pathological laboratories and clinics likes ESR and Blood cell count.

PS5. Student can build own small scale business in poultry farming, goat farming, fisheries, dairy, and in sericulture by acquiring knowledge of applied zoology.

PS6.Understanding of environmental conservation processes, importance, pollution control, biodiversity and protection of endangered species.

PS7.Understand the basic concept, fundamental principles and the scientific theories related to various scientific phenomenon and their relevancies in the day today life.

PS8. Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.

PS9.Develop the scientific attitude which makes the students open minded, critical observation, curiosity thing about biotechnical methods.

PS10. Acquire the comprehension about pathogen, pathogenicity vector and human diseases and study of antibiotics.

PS11.Student will gain knowledge about anatomical, histological, physiological concept, feature study of male and female reproductive system and fertilization in rat and human. PS12. Understand about reproductive Health and infertility in male and female and its causes, diagnosis and management modern contraceptive technologies.

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Bharati Vidyapeeth's

Matosri Bayabai Shriptrao Kadam Kanya Mahavidyalaya, Kadegaon

Department Of Mathematics
(2021-22)
Bachelor of Science (B.Sc.)

Program Outcomes (POs)

After completing B.Sc. degree program, the students will be able to:

PO1: Offer theoretical as well as practical knowledge about different special subject areas.

PO2: Understand the academic field to pursue multi and interdisciplinary science careers in future that include Chemistry, Physics, Botany, Zoology, Mathematics, Microbiology and Computer Science.

PO3: Plan and execute experiments or investigations, analyze and interpret data information collected using appropriate methods.

PO4: Develop scientific temper and attitude which is more beneficial for the society as the scientific developments and make a nation or society to grow at a rapid pace through research.

PO5: Think critically; follow innovations and developments in science and technology.

PO6: Understand the issues of environmental contexts and sustainable development.

PO7: Acquire the skills and ability to engage in independent and life-long learning in the broadest context socio technological changes.

PO8: Demonstrate professional and ethical attitude with enormous responsibility to serve the society

Program Specific Outcomes (PSOs)

PSO1: Think in a critical manner.

PSO2: Analyze a problem, and identify and define the Computing requirements, which may be appropriate to its solution.

PSO3: Enhancing students' overall development and equipping them with mathematical modeling abilities, problem-solving skills, creative talent, and power of Communication necessary for various kinds of employment.

PSO4: Formulate and develop mathematical arguments in a logical manner.

PSO5: Recall basic facts about mathematics and display knowledge of conventions such as notations, and terminology.

PSO6: Develop a positive attitude towards mathematics as an interesting and valuable subject of study.

Bharati Vidyapeeth's

Matosri Bayabai Shriptrao Kadam Kanya Mahavidyalaya, Kadegaon

Department Of Mathematics
(2021-22)

Course outcomes (COs) B.Sc.–I (Sem-I)

DSC5A-Differential Calculus

CO1: Define complex numbers and find the conjugate ofa complex number also find a polar form ofa complex number in various quadrants.

CO2: Use De-Moivre's theorem for calculating powers of complex numbers in the form of $cos\theta \; and \; sin\theta$.

CO3: Tell the definition of Hyperbolic functions and the relation between Hyperbolic and circular functions.

CO4: Explain how to write expansion of $cosn\theta \; and \; sinn\theta$ in terms of powers of $cos\theta \; and \; sin\theta$

CO5: Evaluate n^{th}order derivative of standard functions.

CO6: Apply Leibnitz's theorem for finding n^{th} order derivative of a product of two functions.

CO7: Find partial derivatives of the first order and higher order.

CO8: Use Lagrange's method of undetermined multipliers for evaluating maxima and minima for functions of two variables.

CO9: Explain verification of Euler's theorem on homogeneous function.

DSC6A-Calculus

CO1: Restate Rolle's Theorem, Lagrange's mean value theorem, and Cauchy's.

CO2: Justify verification of mean value theorems for various functions.

CO3: Find Taylor's and Maclaurin's series expansion of various functions.

CO4: Use various indeterminate forms for evaluating the limit ofa given function.

CO5: Tell $\varepsilon - \delta$ definition of a limit of a function of one variable and Restate theorems on limits.

CO6: Find limits of various functions.

CO7: Explain continuous functions and their properties.

CO8: Examine the continuity or discontinuity of various functions.

CO9: Inspect the differentiability of various functions

B.Sc.-I (Sem-II)
DSC5B-Differential Equations

CO1: Define exact differential equation, Linear differential equations, and Bernoulli's equation.

CO2: Restate necessary and sufficient conditions for exactness.

CO3: Discuss the method of solutions of an exact differential equation, Linear differential equations, and Bernoulli's equation.

CO4: Solve the differential equation by choosing the proper method of solution.

CO5: Tell the definition of linear differential equations with constant coefficients, complementary functions, and particular integrals.

CO6: Find the complementary functions of various differential equations of second order.

CO7: Explain various methods to find a particular integral.

CO8: Apply the proper method to find the solution of the homogeneous linear differential equation.

DSC6B-Higher order ordinary differential equations and partial differential equations

CO1: Define second-order linear differential equations, total differential equations, and partial differential equations.

CO2: Solve the second-order linear differential equations by choosing the proper method.

CO3: Discuss the method of variation of parameters and solve examples by using it.

CO4: Restate necessary conditions for the Integrability of total differential equations and solve total differential equations by choosing the proper method.

CO5: Explain the method of formation of partial differential equations by the elimination of arbitrary constants and elimination of arbitrary functions.

CO6: Apply the proper method to find the solution of first-order partial differential equations.

CO7: Use Charpit's methods to solve first-order partial differential equations.

CCPM-I

CO1: Use De-Moivre's theorem for finding roots of complex numbers and Leibnitz's theorem for finding n^{th} order derivatives.

CO2: Identify the problem and use the proper technique to find the radius of curvature.

CO3: Use Lagrange's method of undetermined multipliers for evaluating maxima and minima for functions of two variables.

CO4: Evaluate the limit of various functions using indeterminate forms.

CO5: Solve differential equations by choosing the proper method.

CO6: Use the self-orthogonal method to find an orthogonal trajectory for a curve of family.

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Department Of Mathematics
(2021-22)

B.Sc.-II (Sem-III)
DSC5C- Real Analysis-I

CO1: Tell basic definitions in sets and functions.
CO2: Describe properties of functions.
CO3: Apply mathematical induction to establish the validity of statements, p(n) for every natural number n.
CO4: Justify the countability of sets.
CO5: Define real numbers, least upper bounds, and greatest lower bounds.
CO6: Explain order properties of real numbers, completeness property, and Archimedean property.
CO7: Illustrate Arithmetic-Geometric mean inequality, Triangle inequality, and Bernoulli's inequality.

DSC6C-Algebra-I

CO1: Tell definitions of Hermitian and Skew-Hermitian matrices and restate properties of matrices.
CO2: Define the Rank of the matrix, row echelon form, and normal form of a matrix.
CO3: Use row echelon form and normal (canonical) form to find the rank of a matrix and solve the system of linear homogeneous equations and linear non-homogeneous equations by finding rank of a matrix.
CO4: Solve the system of simultaneous linear homogeneous and non-homogeneous equations by using the proper method.
CO5: Find Eigen values and Eigen vectors by using the Cayley Hamilton theorem.
CO6: Develop relations and illustrates Equivalence class theorem, Warshall's Algorithm.
CO7: Memorize definitions of group, subgroup, Abelian group, and order of the group and discuss theorems on it.
CO8: Restate necessary and sufficient conditions for a group to be a subgroup of G.
CO9: Explain the cyclic group and its properties.
CO10: Give examples of the group, subgroup, Abelian group, and cyclic group.

B.Sc.-II (Sem-IV)
DSC5D-Real Analysis-II

CO1: Define sequence, subsequence, the limit of a sequence, and convergent sequence.
CO2: Discuss properties of convergent sequences.
CO3: Explain the monotone sequence and its properties.
CO4: Evaluate the limit superior and limit inferior of different sequences.
CO5: Tell definitions of infinite series, convergent and divergent series, and sequence partial sum of series.
CO6: Use comparison test for positive term series, D'Alembert's ratio test, Cauchy's root test, and Rabbi's test for convergent and absolute convergent of an infinite series of real numbers.
CO7: Apply Leibnitz's test for convergence of an infinite series.
CO8: Describe Cauchy sequences and justify their properties.

DSC6D-Algebra-II

CO1: Discuss Lagrange's theorem and its consequences.
CO2: Define the normal subgroup and explain its properties.
CO3: Justify the results related to the normal subgroup.
CO4: Explain the factor group and its properties.
CO5: Identify the Homomorphism, Isomorphism, Automorphism, and endomorphism of the group and discuss results related to homomorphism.

CO6: Define the Kernel of Homomorphism and discuss theorems on it.
CO7: Discuss the fundamental theorem of homomorphism and its consequences.
CO8: Tell definitions of permutation and give examples of it.
CO9: Explain Cayley's theorem.

CCPM-II

CO1: Find Eigen values and Eigen vectors of a given matrix.
CO2: Verify the Cayley Hamilton theorem and apply it to finding the inverse of a matrix.
CO3: Use the underlying unifying structures of mathematics. (i.e., sets, relations an functions, logical structure) and the relationship among them.
CO4: Identify convergence of series by using the proper test.
CO5: Explain Homomorphism and Kernel
CO6: Solve examples on the group and find the order of an element.

CCPM-III

CO1: Tell features and SCILAB environment workspaces.
CO2: Create a matrix of real values in SCILAB and find the addition, subtraction, and product of the matrix and also find the size and length of a matrix.
CO3: Plot a graph of simple functions using SCILAB.
CO4: Describe the procedure for creating a polynomial using roots and using coefficients.
CO5: Explain the method for creating the SCILAB function and its execution.
CO6: Write the program of numerical methods and predict the output.

Head

Principal

V.M.B.S.K. Kanya Mahavidyalaya

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